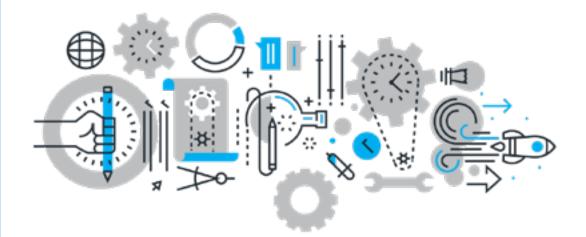


Year 7 Knowledge Organiser

Autumn Term



How do I complete Knowledge Organiser Homework?

HWCS

Link to self-quiz video: https://youtu.be/cFUuhtPIMPU

Step 1

Check on:

ShowMyHomework for what words / definitions / facts you have been asked to learn.

Step 2

Write today's date and the title from your Knowledge Organiser in your self-quizzing book.

Step 3

Read the section of the Knowledge Organiser that you are studying. Read it slowly, you can read it aloud and with a ruler if this helps.

Step 4

Cover up the section and try to write out the information exactly as it is written on the Knowledge Organiser in your selfquizzing book.

DO NOT PEEK!

Step 5

Uncover the section and compare it to what you have written. If you have made mistakes or missed parts out, add them in using a pencil or a different colour.

Step 6

Repeat steps 3-5 again until you are confident.

You will need to bring your self-quizzing book in every day and your teacher will check your work.

You will be tested in class.

Knowledge Organiser - YEAR 7 - AUTUMN TERM

Music - Pacic Theory & Koywords



Contents		Music - Basic Theory & Keywords
Art - Insects & Bugs	4	PE - Sport - Hockey
Art - Colour	5	PE - Sport - Basketball
Art - Drawing	6	PE - Sport - Badminton
Art - Formal Elements	7	PE - Sport - Netball
Art - Painting	8	PE - Sport - Rugby
Art - Photo + Critique	9	PE - Sport - Football
Art - Textiles and Clay	10	PE - Theory - Part 1
Dance	11	PE - Theory - Part 2
D&T - Steady Hand Game	12	PSHE - Friendships
D&T - Steady Hand Game Pt2	13	PSHE - Puberty
D&T - Door Stop	14	RE - Part 1
D&T - Door Stop Pt2	15	RE - Part 2
D&T - Picture Frame	16	Science - Scientific Skills
D&T - Picture Frame Pt2	17	Science - Biology - Cells
D&T - Food Technology	18	Science - Physics - Forces
Drama 1	19	Science - Physics - Energy
Drama 2	20	Science - Chemistry - Elements
English	21	Spanish - Mi Vida - Part 1
French - Core Language	22	Spanish - Mi Vida - Part 2
French - Basics	23	Spanish - Mi Teimpo Libre
French - Topic 1 - C'est Perso!	24	Spanish - Los Verbos
Geography - Continents & Oceans	25	
Geography - Megacities	26	
History Part 1 + 2	27	
History Part 3 + 4	28	
ICT - Careers & Data Representation	29	
Maths - Autumn 1	30	
Maths - Autumn 2	31	

Contonto

Art - Insects & Bugs





Literacy focus

2.

Formal elements Symmetry Background Midground Foreground Zentangle Proportion Monochrome Relief **Rosalind Monks** Pattern Monochrome

Artist focus

6.

3.

Rosalind Monks https://www.rosalindmonk s.com/



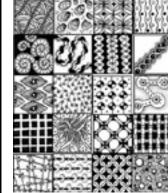
Year 7 Project 1 INSECTS + BUGS Autumn Term

4.

Genre focus

Zentangles This is an easy-to-learn, relaxing, and fun way to create beautiful images by drawing structured patterns.

We call these patterns, tangles. You create tangles with combinations of dots, lines, simple curves, S-curves and orbs. These simple shapes are the "Elemental Strokes" in all Zentangle art.





5.

Slip = clay glue

Knives = for cutting only

Art - Colour

COLOUR

Colour plays a vitally important role in the world in which we live. Colour can sway thinking, change actions, and cause reactions. It can irritate or soothe your eyes, raise your blood pressure or suppress your appetite. As a powerful communication, colour is irreplaceable.

COLOUR WHEEL



Cool colours painting



Warm colours painting

Primary + Secondary = Tertiary YELLOW-ORANG RED-ORANGE RED-VIOLET BLUE-WOLET VACL ET BLUE-GREEN GREEN

TINT is adding white to a colour



TONE is adding grey to a colour



SHADE is adding black to a colour



ADJECTIVES TO DESCRIBE COLOURS

Light Bright Vivid Glowing Vibrant Brilliant Intense Dazzling Subdued Diluted Gloomy Depressing Pale Dull Murky Muted Monotonous Fluorescent Saturated Opaque Transparent

COLOUR SCHEMES

6

PRIMARY



Uses the primary colours: Red, Yellow & Blue. They can not be made by mixing other colours.

COMPLEMENTARY



Uses a pair of colours that are opposite each other on the colour wheel. The pairs are: Green/Red; Blue/Orange; Yellow/Purple.

SECONDARY



Uses the secondary colours: Orange, Green & Purple. Each secondary colour is made by mixing two primary colours.

HARMONIOUS



Uses three or four colours (primary, secondary and tertiary) that are next to each other on the colour wheel.

TERTIARY



Uses the tertiary colours. They are made by mixing a primary and a secondary colour next to each other on the colour wheel.

MONOCHROMATIC

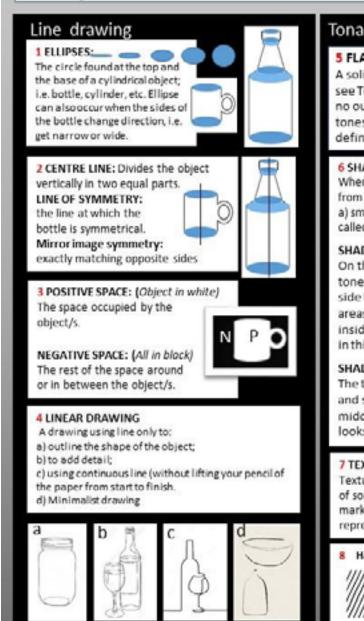


Uses Tints, Tones & Shades of one colour. The word MONO means ONE and the word CHROMA means INTENSITY OF COLOUR.

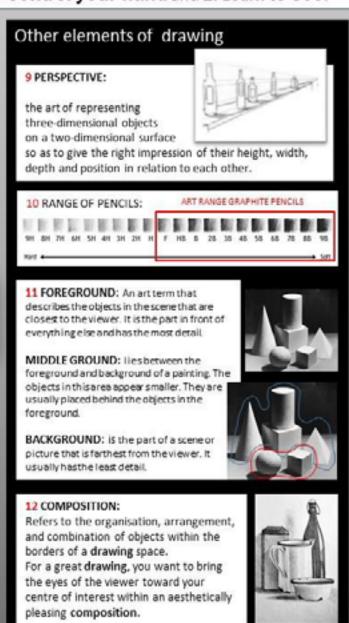
Art - Drawing



DRAWING The basic craft of drawing is about two things: 1. To control your hand and 2. Learn to see.







Art - Formal Elements

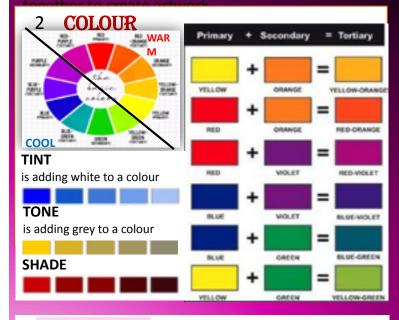


10

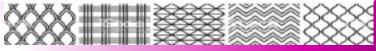
3

FORMAL ELEMENTS

The Formal Elements are: line, shape, form, tone, texture, pattern and colour. They are used



is a symbol or shape that is repeated. A design that is created by repeating lines, shapes, tones or colours. The design used to create a pattern is often referred to as a **motif**. Motifs can be simple shapes or complex arrangements. Tessellating any image creates a Repetitive pattern.



LINE

is the path left by a moving point, i.e. a pencil or a brush.

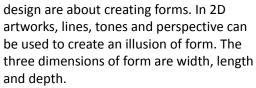
A line can take many forms. It can be horizontal, diagonal or curved. Line can be used to show: contours (the shape and form of something); movements, feelings



is an area enclosed by a line. It could be just an outline or it could be shaded in. When drawing shapes, you must consider the size and position as well as the shape of the area around it. The space between the shapes is called **negative space**.

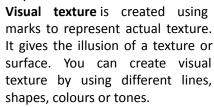
6 FORM

is a three dimensional shape (3D), such as a cube, sphere or cylinder. Sculpture and 3D



is the lightness or darkness of an object. This could be a shade or how dark or light a colour appears. Tones are created by the way light falls on a 3D object. In every 3D object there are minimum of 3 tones; light, mid-tone and dark. Tone can be flat or it can vary from dark to light.

8 **TEXTURE** is the surface quality of something, the way something feels or looks like it feels. Actual texture really exists, so you can feel it or touch it.







SCALE

is the size of one object in relation to the other objects in a design

9

in a design

10 **PROPORTION** refers to the relationship of the sizes of two

the relationship of the sizes of two or more subjects or elements.



WHOLE

Art - Painting



PAINTING 1. The act of painting, using a brush, palette knife, sponge, or airbrush to apply the paint; 2. The result of the action – the actual picture.

1 Watercolour brushes:

Are specially made to allow the artist to control the flow of the colour from the brush onto the paper. A watercolour brush should hold a fine point when wet and spring back into shape after each stroke. It should carry the colour allowing the artist to: a) lay it down on the paper evenly 2) consistency.



2 WATERCOLOUR:

a) Paints that are made of pigments suspended in a water-based solution (binder).

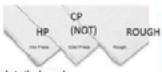


b) The art of painting with watercolours, especially using a technique of producing paler colours by diluting rather than by adding white.



WATERCOLOUR PAPER:

Best watercolour papers are made from cotton fibres. There are three types of w/c paper.



HP- Hot Press. Smooth surface for detailed work CP (NOT) - Cold press. Slightly textured for most types of work Rough - Heavily textured paper enhances the final piece of work.

3 WATERCOLOUR TECHNIQUES:

- a) Wash: When watercolour mixture is gradually diluted with water.
- b) Blending: When two colours seamlessly merge into one another.
- c) Wet-on Wet: Water is applied onto the paper and then paint is applied onto it.

d) Masking Fluid

It is a rubber type product that prevents the paint from reaching the paper and is peeled off to expose the whitepaper left untouched.



4 ROUND BRUSHES:

Good for sketching, outlining, detailed work, controlled washes, filling in small areas.

FLAT BRUSHES: Good for bold strokes, washes, filling wide spaces, impasto. Edge can be used for fine lines, straight edges and stripes.

5 ACRYLIC PAINT: Opaque and semi-opaque fast-drying paint made of pigment and acrylic polymer emulsion dilutable with water.



Canvas, paper, wood, or anything which is neither greasy nor too glossy.



A good selection of round and flat stiff synthetic brushes. Palette knives.

6 ACRYLIC PAINTINGS TECHNIQUES: UNDERPAINTING: A layer of paint applied first to a canvas or board.



This type of painting has the entire canvas covered in a single transparent colour. This layer will create backlighting shadows that will tone the entire painting and provide contrast.

b) A Tonal Under-Painting A layer of paint applied first that acts as a foundation for the painting with some built in contrast and tonal values.

IMPASTO: A technique used in painting. where paint is laid on in very thick layers that the brush or palette-knife strokes are visible. Paint can also be mixed right on the canvas. When dry, impasto provides texture; the paint appears to be coming out of the canvas.





7 POSTERPAINT:

A semi-opaque paint with a water-soluble binder, used mainly in schools.



8 OIL PAINTS: is a type of slowdrying paint that consists of pigment = = suspended in a drying oil, commonly linseed oil. Not used in schools.

9 MIXED MEDIA:

A Technique that uses more than one medium or material. Assemblages and collages are two common examples of art using different media that will make use of different materials including cloth, paper, wood and found objects.

ASSEMBLAGE:

The making of 3D art, often involves using found objects.



MIXED MEDIA COLLAGE:

This is an art form which involves combining different materials with paint to create a whole New artwork.



10 SGRAFFITO TECHNIQUE: Used in painting, pottery, and glass. Consists of putting down a preliminary surface, covering it with another, and then scratching the top layer. The pattern or shape that emerges is of the colour below.



Art - Photo + Critique



1. Types of Photography

Landscape

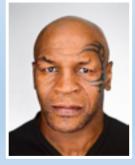
- -Shows space within the world- think 'land' to remember, but can include sea
- -Can make use of water for reflections
- -Often symmetrical
- -Usually all in focus



Still Life -Inanimate objects

-Simple background such as fabrics, wood & plain surfaces lighting usually from the

side, usually natural



Portraiture

- -Photo of a person or a group of people Plain background
- -Face fills the frame
- -Focus usually on the eyes
- -Controlled lighting
- -Can be posed or natural

2. How to use the camera

Portrait mode

Camera needs to be this way up to take a portrait photograph

Shutter

The large round button. Hold half way down to focus, listen for the beep, then hold all the way down to take.

On/off button

Strap ALWAYS on wrist

3. Tips

- -Do not use flash (especially indoors)
- -Make sure your lighting is even
- -Be still when you take your photograph to avoid camera shake
- Make sure your image is focused before you take it
- -Use **simple backgrounds**; plain
- work well
- -Get closer. DO NOT use zoom
- -Don't rush
- -Take more than one photo

Critiquing artwork You need a specific vocabulary to comment on all the elements of art. Here are some to get you started.

Colour

Colour is very important. No matter what type of artwork colour helps define the piece and the artist. A lot of artwork can be determined on who did the work just by looking at the colours.

- Bold
- Vibrant
- Subtle
- Pale
- Earthy
- Naturalistic
- Harmonious
- Complementary

Shape

Art comes in various shapes whether it is a painting or a sculpture. All will contain shapes.

- Organic
- Curvaceous
- Geometric
- Angular
- Elongated

Texture

Texture can be actual (it exists) or visual (made to look like it exists). It is often used when referring to clothing, furniture

- Rough
- Fine
- Smooth

Movement

Movement is seen in every piece of art. Movement helps to create or define a piece of art.

- **Swirling**
- **Flowing**
- Dramatic
- Still

Tone

This will describe the light and dark areas in a piece of art.

- Subtle
- Contrasting
- Muted
- Dramatic

Contrast

This relates to the differences of the elements in an artwork.

- Dramatic
- Subtle
- Strong

Scale

This relates to the size of the work and the size of the objects in relation to each other.

- Large
- Small
- Intimate
- Miniature
- Monumental
- Distorted

Line

Line is art is similar to how a musician follows lines and creates expression using notes played for different lengths of time.

- Flowing
- Delicate
- Simple
- Bold
- Thick
- Thin

and hair.

- Coarse
- Uneven

Art - Textiles and Clay

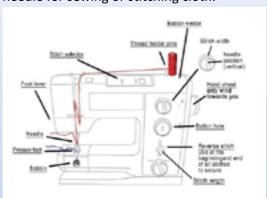
TEXTILES

Key Stage 3

CLAY MAKING

1.SEWING MACHINE

A machine with a mechanically driven needle for sewing or stitching cloth.



Ziggag stitch www. Three-step zigzeg stitch VANAAAA Lightning bolt stitch www Straight stretch stitch

2. HEAT PRESS

A machine which uses heat and pressure, to transfer a design or a graphic on another surface, and to heat and fuse man-made materials.





3. BATIK

A method (originally used in Java) of producing coloured designs on textiles by dyeing them, having first applied wax to the parts to be left undyed.





4. TAKE CARE

Electrical equipment

Tuck in ties Tie hair back No water near equipment Be aware of sharp/hot objects Electrical machines, take care with wires

Do not use ANY equipment before training

Handstitching

Needles/Pins - Use a pin cushion Pick fabric scraps off the floor Scissors – pass safely

Clay

No eating/drinking whilst using clay ALL equipment to be wiped with damp cloth Wear an apron Pass knives safely Clear clay from floor

5. Couching



Applique



Stitching by hand











6. Clay Equipment + Process

Fire = method of heating clay **Kiln** = oven in which clay is fired **Bisque ware** = clay that has been fired to 1000oC Greenware = clay that has not been fired Board, guide sticks, rolling pin for rolling out clay to an even level **Tools** = for joining Slip = clay glue Knives = for cutting only







Coil pot

Bisqueware

Slab building

Glazing











Year 7 - Dance 🦋







Performing skills

Term	Definition	
Timing	moving to the beat of the music and/or your group.	
Energy	performing actions with the full amount of effort required.	
Movement memory	remembering all of the movements.	
Accuracy	making the correct shapes with your body.	
Facial expressions	showing the mood of the dance through your face.	
Extensions	Fully extending the legs, toes, arms and fingertips	
Focus	being fully committed to the performance by ignoring distractions.	
Flexibility	being able to perform a wide range of movements with ease.	

•	0 0			
	Tier 2 vocabulary			
	Warm up			
	Leadership			
	Audience			
	Impact			
	Re-cap			
	Reflection			

<u>s</u>	
skil	
apl	
gr	ľ
rec	
Choreography	
\cup	

Term	Definition	
Actions	the dance movements.	
Levels	the different heights the dancer reaches whilst performing.	
Formations	the positions or shape that the dancers stand in.	
Directions	the direction of travel or the way that the dancers are facing.	
Transitions	linking one movement to another.	
Dynamics	how the actions are performed.	
Unison	same movements at the same time.	
Canon	same movements performed one after another.	

Tier 3 vocabulary
Sequence
Choreography
Rehearsal
Venue

Street dance often uses energetic and sharp movements whilst maintaining a low centre of gravity.

Contemporary is an expressive style of dance which often uses floor work, lifts, contractions and falls.

Narrative dance tells a story and has characters.

Abstract dance places importance on the movement rather than portraying a storyline.

D&T - Steady Hand Game



Year 7 Design and Technology Knowledge Organiser Steady Hand Game

Computer-aided design (CAD)

Computer-aided design (CAD) is about using computers to assist you, the designer, during the design process. It can help in a number of ways, for example you can produce a design in a variety of materials and you can rotate a design through 360 degrees on any axis. The designs can be manipulated and mirrored with a simple click of the mouse. Any area of a design can be viewed at a rangeof magnifications.





Examples of 2D and 3d CAD software



2D CAD soft ware such as Techsoft 2d design can be used to design products such as packaging nets or panels for products. These can then be printed out or laser cut, then made into products.



3D CAD software such as Onshape or Tinkercad can be used to make 3d models of products. These can then be used as engineering drawings or made using 3d printers.

Input, process and output. Circuit components

A system is a group of parts that work together to carry out a function. Almost all products that contain electronics and mechanical parts are systems. If you understand the blocks that make up a system and how these interact with each other, you will be able to design complex products quickly and easily.

Parts of a system

The simplest system has three systems blocks:

- The input block detects a signal from outside the system. For example, it could be a switch that detects movement or a sensor that detects light.
- The process block receives the signal from the input block and determines what the system will do. There are many different types of process block.
- The output block is turned on or off by the process block. Common output blocks produce light, movement or sound.

The systems blocks represent physical items – they might be individual components or groups of parts working as a sub-system. For example, the output block for an alarm could be a siren sub-system. The systems diagram for the alarm would include this sub-system as a single output block.



D&T - Steady Hand Game Pt2

HWCS

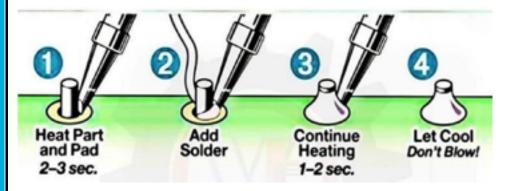
Year 7 Design and Technology Knowledge Organiser Steady Hand Game

Soldering

Soldering a process in which two or more items are joined together by melting and putting a filler metal (solder) into the joint, the filler metal having a lower melting point than the adjoining metal. Unlike welding, soldering does not involve melting the work pieces.

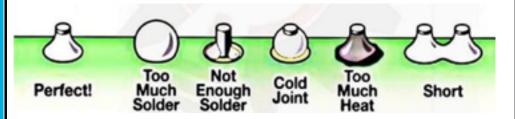
Method of soldering

The diagram below shows the correct steps you need to perform to solder an component into place



Soldering defects

The diagram below show the comment defects that can happen when you are soldering.



<u>Polymers</u>

Approximately 5 million tonnes of polymer are used in the UK each year, according to government figures. This equates to approximately 1.5 kg per person per week. It is estimated that between 50 and 60 per cent of this is used only once before disposal.

Types of polymer

Thermoforming	Thermoforming plastics are a group of plastics that can be heated and formed into a shape. This type of polymer can be heated and formed more than once
Thermosetting	Thermosetting plastics are a group of polymer can be heated, and then set into shape. These polymers can only be heated and set once.

▼ Some common thermoplastic polymers

Туре	Properties	Typical uses
PMMA (poly(methyl methacrylate))	Known by the trade names Acrylic and Perspex Can be transparent Hard wearing and tough Softens between 85°C and 165°C	Plastic windows, both tubs
HDPE (high-density polyethylene)	Strong and stilf Softens at about 130°C	Pipes, buckets, bowls
PET (polyethylene terephthalate)	High strength and good toughness Heat resistant Softens at about 80°C	Drinks bottles, food packaging
HIPS (high-limpact polystyrene)	Reasonable strength and good toughness Softens at about 90°C	Packaging
PLA (polylactic acid)	Reasonable strength but can be brittle Softens between 70°C and 80°C	30 printing. children's toys

D&T - Door Stop

HWCS

Year 7 Design and Technology TEXTILES / DOOR STOP Knowledge Organiser

Fibres —Natural and Synthetic

How textiles are made

Textile fabrics are made from fibres. Fibres are very fine, hair-like structures that are spun or twisted into yarns. These yarns are then woven or knitted together to create fabrics. Different fibres can be mixed together to create improved fabrics.

There are two main types of fibre:

- Natural fibres come from plants and animals.
- Synthetic fibres (manufactured fibres) come from oil, coal or petrochemicals.



The cotton boll (green pod) contains the plant seeds. The cotton fibre is found inside the boll, protecting the seeds.

▼ Some common fibres

Type	Source	Properties	Uses
Cotton	Natural - cotton plant	Absorbent; strong; cool to wear; washable; flammable	Clothing; soft furnishings; bed sheets; sewing threads
Linen	Natural - flax plant	Absorbent; hard wearing; cool to wear; washable; flammable	Summer clothing, soft furnishings, table linen
Silk	Natural - silkworm	Absorbent; natural shine; comfortable to wear	Luxury clothing and lingerie; knitwear; soft furnishings
Wool	Natural - animals such as sheep or llamas	Warm; absorbent; strong; low flammability; shrinks easily	Coats: jackets: jumpers; socks; blankets; carpets
Polyester	Synthetic - petroleum, coal	Strong, flame resistant but still melts; poor absorbency	Versatile; has many uses throughout textiles
Polyamide (nylon)	Synthetic - petrochemicals	Strong; melts as it burns; good elasticity (will stretch and recover)	Clothing; carpets; rugs; seat belts; ropes; tents
Acrylic	Synthetic - petroleum	Strong; burns and melts; good insulator	Knitwear; knitted fabrics; fake fur; upholstery

Weaving and Knitting into Fabrics

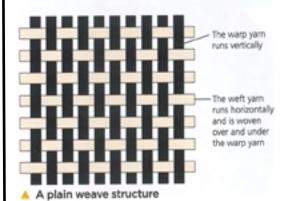
Types of material and their uses

There are two main methods for making textile fabrics: weaving and knitting.

Weaving

Woven fabrics are produced on a loom using warp yarn and weft yarn. The warp yarn is stronger and runs vertically, while the weft yarn is woven over and under the warp yarn to create the fabric. The most common type of weave is called plain weave and has many uses throughout textiles. Different types of woven fabric are created by changing the way that the yarns are woven or the thicknesses and texture of the yarns, and through the use of colours.

Weaving is the strongest method of fabric construction and is ideal for products that need a firm structure, including school shirts, smart trousers, bedlinen, kites, holdalls and school bags.

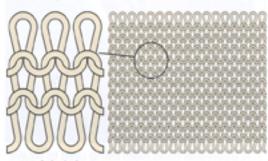


Knitting

Knitted fabric is created by interlocking loops of yarn, which can be done either on a machine or by hand. The loops in the fabric trap air, making it warmer to wear, for example a knitted wool jumper will be comfortable and warm. Knitted fabrics can be stretched, but this can make them lose their shape.

There are two types of knitted fabric:

- Warp knitting uses several yarns that interlink vertically. These can be cut into shapes to make textile products.
- Weft knitting uses one yarn that runs horizontally. The fabric is built up row by row, with each loop interlocking with the row below. Hand knitting is done this way. This type of knitting will unravel if it is cut.



Weft knitting

D&T - Door Stop Pt2





Setting up the Sewing Machine Step by Step

Sewing machines

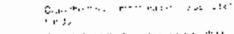
Most sewing machines have a variety of functions and stitches to complete the different processes that are needed to make a textile product. They have attachments, such as a special 'foot' for inserting a zip. Computerised sewing machines can be used to embroider original designs. An overlocker is a specialist machine that trims and sews the edge of the fabric at the same time. This is the neatest and most professional method of joining fabrics and neatening a seam or edge.



SECTION 1. ESSENTIAL PARTS

Name of Paris

- Autopose sopio in delini gern length far
- in the property of the
- A SAME A PROPERTY OF ARE BABLICANTY SAIDA
- None (2006)
- gent was promitted at the
- Principliquite.
- Time, 4 See 445, 2 No.
- of the beautiful to the con-
- th Face while
- . Needle this will
- Tarrest andre
- an exception follow

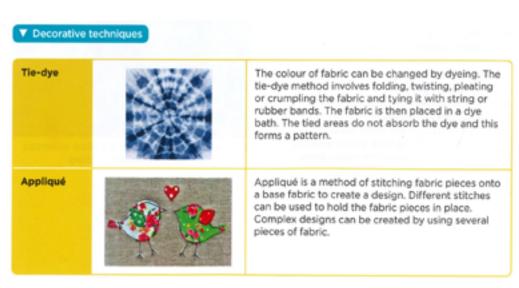


2. 日本時十十分日本日本日本は10年の大大の中国本土 to entry which the entry of a management and the make the be-

- enter y trace that the entering a relation to place a A contract to the second second
- Dial distribution of the Control of

yet to provide the company the con-

Embellishments and surface decoration techniques







D&T - Picture Frame



Year 7 Design and Technology Knowledge Organiser Picture Frame

Health and Safety 15 rules of the workshop

Why do you think workshop Safety Rules are important?

If everyone follows workshop rules, everyone will be safe and learn how to use tools and equipment properly and efficiently.

Always listen carefully to the teacher and follow instructions.

Do not run / rush in the workshop.

Know where the **emergency stop buttons** are positioned in the workshop.

Always wear an apron.

When attempting practical work, all stools should be put away.

Bags should be stored away, during practical sessions in the workshop.

Do not use a machine, if you have not been shown how to operate it safely, by your teacher.

Aways be patient, never rush practical work.

Always use guards, when operating machines.

Keep hands / hair and clothing away from moving/rotating parts of machinery.

Use hand tools carefully, keeping both hands behind the cutting edge.

Report any damage / faults to machines/equipment. Damage or a faulty part, could cause an accident.

Keep your workbench tidy. When you have finished with a tool / piece of equipment, return it to its storage cupboard / rack.

Never distract another pupil, when they are working on a machine or using tools / equipment.

Wear good strong shoes. Training shoes are not suitable.

Tools and Equipment

Tool	Image	Use
Coping Saw		Cut sheet material s to irregular shapes. This saw can cope with cutting curves.
Tenon Saw	BRWIN ALL	Cut timber in a straight line.
Try Square		Use to mark out perpendicular waste lines ready for cutting accurate 90
Workbench Vice		For Holding and securing materials in place whilst cutting, shaping and forming.
Disc Sander		For fine finishing, removing waste material to the waste line.

D&T - Picture Frame Pt2



Year 7 Design and Technology Knowledge Organiser Picture Frame

Timber Classificatioon

Hardwoods

Hardwoods come from Deciduous trees. They loose their leaves each winter and are slower growing than softwoods. This makes for higher quality wood as the grain is closer (denser) together than softwood making it harder wearing. It is also harder to machine.

Examples, OAK BEECH ASH

Softwoods

Softwoods come from Coniferous trees. They keep their leaves all year round and take only 30 years to mature so are considered fast growing trees. Their grain is more open and so the wood is softer and less hardwearing than Hardwood. They are cheaper and easier to machine.

Examples, PINE SPRUCE CEDAR

Hardwood

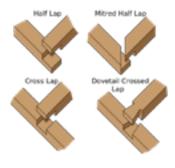
The properties and uses of selected hardwoods

Туре	Characteristic properties	Typical uses
Oak Very strong and hard Light brown colour		High-quality furniture
Mahogany	Fairly strong and durable Pink to reddish-brown colour	High-quality furniture
Beech	Hard and tough, but easy to work with Light brown with darker brown flecks	Wooden toys, household items, furniture
Ash	Tough and flexible Light creamy-brown colour	Tool handles, sports equipment
Balsa	Soft - can be marked using a finger Off-white to tan colour	Modelling

Softwoods

▼ The properties and uses of selected softwood:

Туре	Characteristic properties	Typical uses
Pine	Fairly strong, easy to work with Light brown or yellowish colour	Interior structures in buildings, furniture
Spruce	Strong and hard, but low resistance to decay Yellowish-white colour	Wooden aircraft frames





Sources of timber

Timber is made from trees that are chopped down and then out into planks in a susmill. The wood may be seasoned after cutting, which means that it is dried before use to remove moisture. Seasoning makes wood less likely to distort or worm.

Timber can be a renewable resource if grown in well-managed forests. Responsible management includes planting new trees as abor trees are out down. Timber grown this way can be identified by the Forest Stewardship Council¹⁸ (FSC¹⁹) 100% coint or label.



Stewardship Council symbol

D&T - Food Technology



Knowledge Organiser – Year 7 Food Technology Fruits and Vegetables

Nutrients

Carbohydrates give the body energy.

Protein provides growth and repair of cells.

Fats are needed for warmth, energy, hormone production and protection.

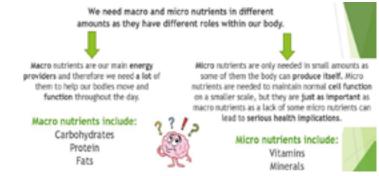
Vitamins and minerals help to maintain normal cell function and maintain general health.

Personal Hygiene

- Wash your hands before handling any food
- · Put your hair up
- Wear a clean apron
- Use a blue plaster if you have a cut
- Don't cough or sneeze on the food

Food Hygiene

- Clean work surfaces
- · Keep work area clean and tidy
- Keep raw and cooked foods apart to prevent cross contamination.
- Use a red chopping board for meat and a green board for fruit and vegetables
- Wash up correctly
 - · Hot water, changed frequently
 - · Washing up liquid
 - Cloth for washing
 - Clean tea towel for drying







How should you wash up at the end of each lesson?



Use a dish cloth and scourer in warm, soapy water to wash up all your equipment. Place it on a clean sink area and then use a tea towel to dry it up.

The sink should be left clean and dry. No food scraps in the bottom of the sink.

Tea towel and dish cloth are placed in washing basket at the end of the lesson.



EHO's also cover:



Safe Cutting Techniques Bridge Hold Claw Grip





Theatre Terminology

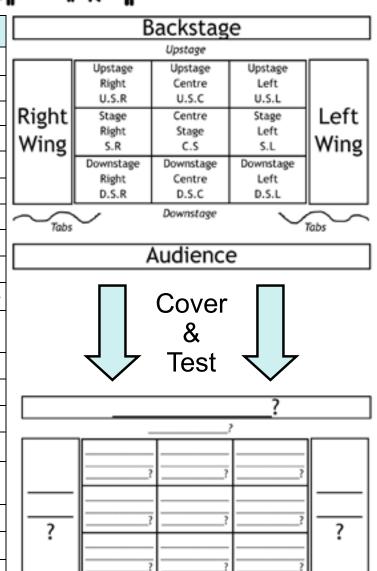






Term	Definition	
Stage Left (SL)	The left hand side of the stage from the actors ' point of view.	
Stage Right (SR)	The right hand side of the stage from the actors' point of view.	
Upstage (US)	The back of the stage / area furthest away from the audience.	
Downstage (DS)	The front of the stage / area nearest the audience.	
Centre Stage (CS)	The middle of the stage.	
Upstage Right (USR)	The back right corner of the stage from the actors ' point of view.	
Upstage Left (USL)	The back left corner of the stage from the actors' point of view.	
Downstage Right (DSR)	The front right corner of the stage from the actors ' point of view.	
Downstage Left (DSL)	The front left corner of the stage from the actors' point of view.	
Wings	The areas beside the stage in which actors wait before entering.	
Backstage	The area where costumes, props and set are stored. You might find the dressing rooms and tech store here too.	
Tabs	Curtains at the front of the stage that can be opened or closed.	
Audience	The people watching your performance.	
Actors	The people performing on stage.	
Characters	The fictional people in the play - they are played by the actors.	
Costume	The clothes the actors wear on stage. They should communicate something about the character.	•
Set	Furniture or other scenery that can make a location on stage.	
Props	Items characters use on stage such as books, bags or phones.	
Blocking / Staging	The basic movements characters make around the stage	
	e.g. Kelly enters from SR and sits down at a table. Dave walks	

away from the table.









神神

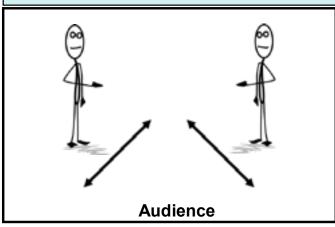
Ø
Ξ
ā
of
0
S
Ö
_
/
Φ
$\overline{}$

Term	Definition
Communication	This can be verbal (using words) or non-verbal (without words).
	In rehearsals , your job is to listen to each other and offer your own ideas.
	In performance , the actor's job is to communicate with the audience, telling them, verbally and non-verbally, what their character is thinking and feeling.
Collaboration	How you work together. You could have a Director or no Director. You could each take it in turns to be in charge. However you organise yourselves, remember: Teamwork makes the dream work.
Concentration	In rehearsals this means staying on task and not wasting time. In performance it means staying in character and staying focussed.
Character	The personality of the person you are playing. 'Police Officer' is not a character, it is a job. ' Grumpy Police Officer' is a character because it tells us something about their personality .
Conflict	A struggle , a problem or a challenge that the characters must overcome. You cannot have interesting drama without conflict.
Change	The way character or story develops and changes as the play goes on. Like Luke Skywalker changing from a farm boy into a mighty Jedi Knight or Elsa learning to accept her powers.
Conclusion	The way your play ends. Your ending doesn't have to be happy or sad but it does have to make sense.



The 'V' Shape: Acting

Keeping your body 'open' to the audience.

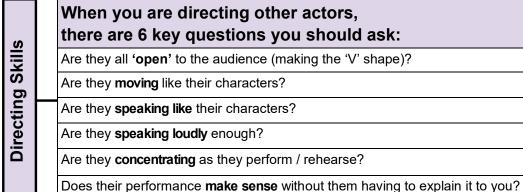


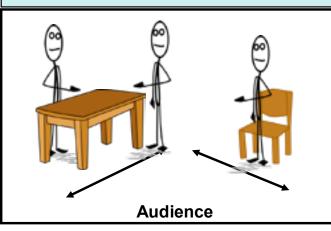




The 'V' Shape: Staging

Keeping your scenery 'open' to the audience.





IMPORTANT TERMS

MORPHEME – A 'chunk' of a word that carries meaning. Morphemes are the smaller components that words are made of.

MORPHOLOGY – The study of how words are formed from smaller parts.

ETYMOLOGY – The study of where words come from and how they evolve over time.

PREFIX – A morpheme added to the beginning of a root word or morpheme to alter the meaning in some way.

SUFFIX – A morpheme added to the end of a root word or morpheme to alter it meaning in some way.

BOUND MORPHEME – A morpheme that cannot stand as a word on its own: it must be used in combination with another morpheme in order to form a word. Prefixes and suffixes are bound morphemes, as are most of our root morphemes.

FREE MORPHEME – A morpheme that can stand as a word by itself, such as 'book'. While most of our bound morphemes come from Latin or Greek, many of our free morphemes can be traced to other ancient languages.

LATIN – An extinct language, spoken by the Romans, from which we get many of our morphemes.

GREEK – Another extinct language, older than Latin. We tend to see Greek morphemes in technical or scientific words.

ANGLO-SAXON – The language also known as Old English, spoken by the Germanic peoples who settled in England in the 5th century. This language evolved into the language we speak today.

DUAL VARIATION – A pair of synonyms (words with the same meaning) for which each of the two words can be traced back to a different language, e.g. bring/carry; buy/purchase; weird/strange; weep/cry.

HWCS



LEVELS OF MEANING

Communication contains several different levels of meaning, which we can represent as a hierarchy.

PARAGRAPHS are groups of sentences collected around a single focus or topic.

SENTENCES are strings of words placed together to express a complete thought or meaning. Sentences are made out of...

CLAUSES, which must consist of a noun and a verb. In addition to clauses, sentences can also contain...

PHRASES, which are smaller units of meaning usually made up of two or more words, and which do not make sense on their own. Phrases, like clauses, are made out of...

WORDS, which are single elements of language (i.e. sounds we speak) that have clear, distinct meanings. We call the meaning of a word its *definition*. Words are built out of...

MORPHEMES, which are the smallest level of meaning. Morphemes are the 'building blocks' of words. Some words have only one morpheme, but many words are built from several morphemes, each with its own 'flavour' of meaning. These morphemes can combine in many different ways to form different words. Once we know the 'flavour' of meaning that each morpheme contributes the word it sits within, we can get better at understanding new and unfamiliar words.

THE ORIGINS OF ENGLISH

The language we speak today is known as **Modern English.** This language evolved from an ancient language called **Anglo-Saxon**, which originated in northern Europe, in an area that now covers northern Germany and Denmark.

The Anglo-Saxon people migrated to England in the fifth and sixth centuries, bringing their language with them. Before the Anglo-Saxons arrived, people in Britain mostly spoke a Celtic language called Common Brittonic, and some would have spoken Latin, which had been brought to Britain by the Romans when they invaded in the midfirst century.

The Anglo-Saxon language replaced Common Brittonic across most of Britain, eventually becoming the language we speak today; however, Common Brittonic survived in Cornwall and Wales, and the modern Cornish and Welsh languages are directly descended from this language.

The Anglo-Saxon language, also known as Old English, evolved into Middle English, which was in use from around the I Ith century until the end of the I5th century. Compared to Old English, Middle English is much easier for us to read and understand; this is because it is closer to the language we speak today.

WORD ORIGINS

Although the systems and rules that underpin our language come from Anglo-Saxon, many of the individual words that we use have their origins in other languages, as shown below.

29% of our words come from Latin;

29% of our words come from French;

26% of our words come from Germanic languages, including Anglo-Saxon;

6% of our words come from Greek:

10% of our words either originate with names or other languages, or have unknown origins.

French - Core Language



VERB INFINITIVES

1-ETRE = to be

6- REGARDER = to watch

2- AVOIR = to have

3- FAIRE = to do

4- ALLER = to go

5- JOUER = to play

PRESENT TENSE VERBS WITH "JE"

1- je suis = I am

6- je regarde = I watch

2- j'ai = I have

3- Je fais = I do

4- je vais = I go

5- je joue = I play

CONNECTIVES AND INTENSIFIERS

1- d'abord = firstly

2- puis / ensuite = then

3- enfin = finally

4- et = and / ou = or

5- mais = but

6- cependant = however

7- quand = when

1- très = very

2- assez = quite

3- un peu = a little

French y7

Core Language



TIME MARKERS

1- quelquefois = sometimes

2- tous les jours = everyday

3- une fois par semaine = once a week

4- souvent = often

5- tout le temps = all the time

OPINIONS

1- j'aime = I like

2- je n'aime pas = I don't like

3- j'adore = I love

4- Je déteste =

I hate

5- parce-que c'est= because it is

génial = great Intéressant = interesting

drôle = fun

ennuyeux = boring

nul = rubbish



Greetings

Bonjour / salut = hello / hi Au revoir = good bye A bientôt = see you soon Comment ça va? = how are you Ca va (bien) = I'm good Ca va mal = I'm not good Bof / comme-ci comme ca = so so Comment tu t'appelles = What's your name? Je m'appelle... = My name is...

Age and numbers

12= douze

13= treize

Quel âge as-tu? = How old are you? J'ai.... ans = I am.... years old.

1 = un 14= quatorze 2= deux 15= quinze 3= trois 16= seize 4= quatre 17= dix-sept 5= cinq 18= dix-huit 6= six 19= dix-neuf 7= sept 20= vingt 8= huit 21= vingt et un 9= neuf 22= vingt deux 10= dix 30= trente 11= onze 31= trente et un

Basics in French

Days and months

Mon anniversaire c'est le... = my birthday is...

Mars = March Lundi = Monday Avril= April Mardi = Tuesday Mai = May Mercredi = Wednesday Jeudi = Thursday Juin = June Jullet = July Vendredi = Friday Août = august Samedi = Saturday

Septembre = September Dimanche = Sunday Novembre = November Janvier = January

Décembre = December Février = February

Family

Mon père s'appelle... = my dad is called... Ma mère s'appelle .. = my mum is called... Mon beau-père s'appelle... = my stepdad is called...

Ma belle-mère s'appelle... = My stepmum is called...

Mon frère s'appelle... = my brother is called... Ma soeur s'appelle... = my sister is called... Mes frères s'appellent... = my brothers are called...

Mes soeurs s'appellent... = my sisters are called...

Colours and pets

Ma couleur préférée c'est le .. = my favourite

colour is ...

J'ai = I have bleu = blue un chien = a dog vert = green un chat = a cat jaune = yellow un lapin= a rabbit rouge = red un poisson = a fish orange = orange un oiseau= a bird rose= pink un cheval = a horse violet = purple

marron / brun = brown un hamster

une souris = a mouse blanc = white qui s'appelle = called.. noir = black

Classroom French / Travel Phrases

Pouvez-vous répéter? = can you repeat?

S'il vous plait = please De rien = you are welcome Je ne sais pas = I don't know

Je ne compredns pas = I don't understand

Je voudrais... = I would like...

Où est ... = Where is ...?

C'est combien? = How much is it?

Excusez-moi / pardon = Excuse me / sorry

Je suis Anglais = I am English

French - Topic 1 - C'est Perso!



Monautoportrait • My self-portrait

les animaux (m pl) animals les araignées (f pl) spiders a Brazilian dance la capoeira les chats (m pl) cats les chiens (m pl) dogs le cinéma cinema les consoles de jeux (f pl) games consoles la danse dancing le foot football les gâteaux (m pl) cakes le hard rock hard rock l'injustice (f) injustice les insectes (m pl) insects les jeux vidéo (m pl) video games les livres (mpl) books la musique music les mangas (m pl) mangas les maths (f pl) maths les pizzas (f pl) pizzas la poésie poetry le racisme racism le rap rap le reggae reggae les reptiles (m pl) reptiles le roller roller-skating le rugby rugby le skate skateboarding les spaghettis (m pl) spaghetti le sport

sport

tennis

journeys

violence

tecktonik (dance)

theatre, drama

la tecktonik

la télé

le tennis

le théâtre

la violence

les voyages (m pl)

Les opinions • Opinions

j'aime I like ie n'aime pas I don't like Tu aimes ... ? Do you like ... ? il/elle aime he/she likes Yes, I like that. Oui, j'aime ça. Non, je n'aime pas ça. No, I don't like that. Tu es d'accord? Do you agree? Je suis d'accord. Lagree. Je ne suis pas d'accord. I don't agree. C'est ... It's ... génial great cool cool bien good ennuyeux boring rubbich nul essentiel essen important impor Ce n'est pas bien. It's no

Les musiciens • Musicians

II/Elle joue ... He/She plays... de la batterie the drums de la guitare the guitar II/Elle chante. He/she sings II/Elle a beaucoup He/She has a lot of talent. de talent.

ETRE =to be Je suis Tu es II/elle/on est Nous sommes Vous ētes IIs/Elles sont

FRFNCH Y7- TOPIC 1 - C'FST PFRSO!

Moi et les autres • Me and other people

je suis l am je ne suis pas I am not you are tues il/elle s'appelle he/she is called il/elle est he/she is beau/belle good-looking branché(e) trendy charmant(e) charming cool cool curious curieux/curieuse de taille moyenne average height drôle funny généreux/généreuse generous gentil(le) nice toll grand(e) impatient(e) impotient intelligent(e) intelligent modeste modest petit(e) small polite poli(e)

Les mots essentiels • High-frequency words and et aussi also mais but

très very assez quite toujours always Qu'est-ce que ... ? What ... ? Qui...? Who ... ?

res Aerix er les cueser	- Eyes and nan
j'ai	I have
tuas	you have
il/elle a	he/she has
mon ami(e) a	my friend has
J'ai les yeux bleus/verts/	I have blue/green/grey/
gris/marron.	brown eyes.
J'ai les cheveux	I have hair.
longs/courts/mi-longs	long/short/
	medium-length
frisés/raides	curly/straight
blonds/bruns/noirs/roux	blond/brown/black/red

=to

avez

ont

Les yours et les chaveurs & Fues and hair

AVOIR have ai as Tu II / elle / on avons Nous

Vous

Ils / elles



Geography - Continents & Oceans



	CONTINENTS AND OCEANS KEY TERMS		BIOME KEY TERMS
Continent	large continuous mass of land	Ecosystem	An area in which plants, animals, and other organisms are linked to each other, and to the non-living elements of the environment.
Country	an area of land that is controlled by its own government	Biome	A very large ecosystem.
Ocean A continuous body of saltwater that is contained on Earth's surface.		Biomes are: Savanna	Tropical grasslands, often found in Africa.
Sea	smaller than oceans, typically, partially enclosed by land		Trees that lose their leaves in winter. England has a lot of deciduous forests.
Hemisphere	The world is divided into two sections, north and south.		Evergreen trees, like pine forests, found in the northern latitudes.
Equator The central line of latitude.		Tundra	Land is frozen for most of the year so only grasses grow here.
Latitude Imaginary lines which show how far north or south a place is.		Mountains	areas of high land, sometimes topped with snow.
Arctic Ocean		Desert	Very hot and dry areas.
North America 7	Europe Asia	Tropical Rainforest	Hot, humid growing conditions with many different species.
North Atlantic Ocean Pacific Ocean South Africa South Atlantic Ocean Southern Ocean Southern Ocean Antarctica Antarctica Biomes of the World Ariante Ocean Ocean			

Geography - Megacities



Year 7 Geography Knowledge Organiser Term 1: Megacities

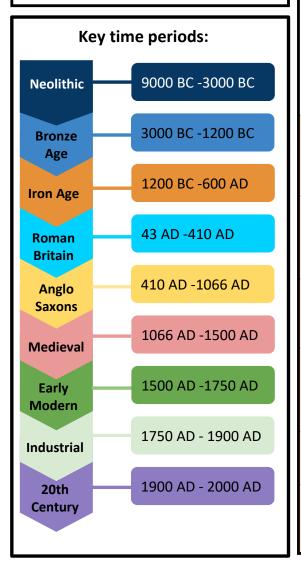
Global Population	Megacities	Migration	Challenges in HIC Cities
Better medicine and agriculture means people are living longer. There are over 8 billion people in	Megacities have a population over 10 million. 1950 New York and Tokyo only 2	People move internally or internationally. People move for many reasons:	HIC cities must make sure they support their population with enough resources and
the world and 56% of those people live in urban areas.	Most rapid growth in Asia.	Push Make you want to leav Factors War, extreme weather crime	re. mitigate
8 Fuel Fuel		Pull Make you want to move somewhere. Better jobs/ medicine, close to family	E.g. overpopulation, lack of facilities, car pollution in Southampton, (UK).
LIC/NEE City Challenges	Speak Like a Geographer	Tier 2 Vocabulary	Skills
Inequality between rural and urban areas is highest in NEE and LICs. Rapid urbanisation causes slums (informal housing). Slums are rich in culture and crime In order for cities to be sustainable they must meet the needs of people today and in the future. Cities must be environmentally, socially and economically sustainable.	Population Rural Urban Internal International LIC, NEE, HIC, Pull Factor & Push Factor Transportation Economy	Urbanisation Migration Sustainable Infrastructure Sanitation Hygiene Overpopulation Slum Megacity Mitigate	Choropleth Map: Advantages: Visually effective - large amount of information and general patterns Disadvantages: Map assumes whole region/area has the same value, but there could be variations

History Part 1 + 2



Edward was the last

Year 7 History: Autumn Term



Part 1. Stories of the Harrow Way

The Harrow Way is one of the oldest roads in Britain. As a result it has seen a lot of different people travel it over the centuries.

Key Words

		44 4 6
Chronological	Events or dates arranged in the order in which they happened	Timelines have dates arranged in chronological order
Migrate	To move from one place to another with the intention of settling	Lots of people choose to migrate to find better places to live.
Trade	Buying and selling goods and services	People often trade things they have made for money
Religion	Belief and worship of a superhuman power	Britain's official religion is Christianity
Economy	To do with trade and money	War changes a country's economy
Politics	Relating to the government or leadership	People who want to govern a country will often study politics

Part 2. 1066 And All That...

Following the death of Edward the Confessor. Harold Godwinson is crowned King of England. His claim is challenged by Harald Hardrada (Norway) & William of Normandy.

Key Words

A supreme leader of a

Monarch

	state who rules until death Anglo Saxon monarch of England	
Heir	The person next in line to inherit Edward had no heir to to throne	
Invasion	An unwelcome intrusion into someone else's country The Normans launched an invasion of England in 1066	
Tactics	A strategy used during battle for a specific purpose William's use of tactic. helped him win the Ba	
Interpretation	An opinion of what happened or what something means John of Worcester's interpretation was that Harold was a good King	
Specific Terms		
Feigned Retreat	Pretending to retreat during battle to fool the enemy	
Bayeux Tapestry	An embroidered history of the events of 1066	
Witan	The Anglo Saxon council that advised the Kings	



Year 7 History: Autumn Term

Part 3. How did the Normans keep control

Once William became King, he asserted his authority over the Kingdom in different ways. Whilst he made lots of changes, there was also some continuity in how England was ruled



Key words

Change	When things are noticeably different from how they were before	There was a change to the monarch after 1066
Continuity	When things stay the same over time	The religion of England was one continuity after 1066
Consequence	Something that happens as a result of something else	One consequence of the Norman invasion was the change in monarch
Laws	The rules by which a country is governed	Many Saxon laws such as trial by ordeal were kept but trial by combat was added to allow Norman Knights to settle disputes by fighting.

Part 3 continued: Norman England

Life in Norman England had some very distinctive features that demonstrate how the Normans had an impact on England

	Specific terms
Feudal System	All land in England now belongs to William. He awards large areas to his Knights in return for military service & taxes. They in turn give land to local lords who have peasants (serfs) work their land and pay taxes.
Tithings	All men in a village were grouped in tens. Each group was responsible to each other for their behaviour. If one committed a crime it was up to the rest to ensure he faced justice.
Castles	Motte & Bailey castles are built quickly to protect Norman soldiers from attack. These are replaced by stone built castles with battlements and moats, drawbridges and thick walls.
Forest Laws	William liked to hunt. Any Saxon found in the forests would be accused of poaching and be blinded.
Domesday Book	1085 William orders a survey to see how much England is worth. Andover is on the top 20% of English villages.
Murdrum Fine	This was a fine imposed on an entire village if a Norman soldier was found dead.

Part 4: The power of the Church

Medieval England was predominantly **Christian** (although there were some Jewish people in the bigger cities). The Church taught that by living a good life you would be rewarded with Heaven when you died. Sinners would go to Hell. You could ease your way into Heaven by contributing money to the Church or by going on Crusade.

Churches were also used to hold trial by ordeal. The church sometimes came into conflict with the monarchy about who had the most power. This was particularly true when **Thomas Becket** was Archbishop of Canterbury.



Doom paintings	Showing visions of Hell were shown in many Churches. These were meant to remind the congregation that they needed to behave
Divine Right of Kings	A monarch's belief that his or her power comes directly from God
Benefit of Clergy	Priests were allowed to be tried in the more lenient church courts
Pilgrimage	A journey undertaken for a religious reason
Sanctuary	A refuge. People could claim sanctuary in churches if they had committed a crime
Ex-Communicate	To be thrown out of the church. You could not be baptised or take communion



Year 7 Computing Knowledge Organiser – Careers and Data Representation

Some Careers in Computing

Software engineer - design and write programs for all types of computers, **Hardware Engineer** - design, develop, test and produce computer systems and various physical components related to all computer systems.

Networking Engineer - plan, implement and oversee the computer networks

Cyber Security - responsible for discovering vulnerabilities and risks in networks,

Software designer / developer - designs and builds computer programs **Software tester** - They test the systems works as they are intended.

Wed Designer/Developer - responsible for the design and construction of websites

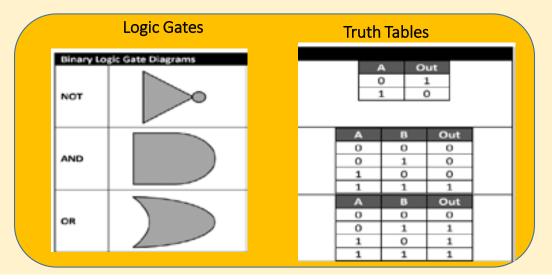
Robotics engineers - Designs and develops robotic prototypes. Constructs, configures, tests, and debugs robots and robotic systems. Installs, operates, calibrates, and maintains robots

Data Analysis - collect, organise and interpret statistical information to help colleagues and clients use it make decisions.

128	64	32	16	8	4	2	1

Key words	
Resolution	how big the pixels are in the image
Meta Data	Data which helps computers process images including image size, Colour depth and Resolution.

Key words		
Binary	1 or 0 the only language that computers understand.	
Denary	Counting using base 10 (0-9)	
Bit	The smallest amount of data (0 or 1)	
Nibble	4 bits − ½ a Byte	
Byte	8 bits – representing a character on the keyboard	
Kilobyte	1024 bytes	
Megabyte	1024 Kilobytes	
Gigabyte	1024 Megabytes	
Terabyte	1024 Gigabytes	





Mathematics

Autumn Term 1

Year 7

Topic: Number

Rules for negatives:

++=+

An **integer** is a whole number (with no decimal places).

+ - = -- + = -

Rounding means making a number simpler but keeping its value close to what it was.

To **estimate** a sum, we first round the numbers to 1 **significant figure**, then do the calculation.

Video Links: Multiplying

Dividing

Estimating

Topic: Basic Algebra

Algebra is using **variables** (letters) to represent numbers.

Each part of an algebraic **expression** is called a **term**.

Like terms can be collected together.

Simplify: to multiply, divide or collecting like **terms** by adding or subtracting to make an expression as 'simple' as possible.

Expand: to multiply out a bracket.

Video Links: <u>Basic Algebra</u> <u>Simplify</u> <u>Expand</u>

Topic: Shapes and Angles

An **angle** is a measure of turn between two lines. Angles are measured in **degrees**. There are 360° in a full turn.

There some important phrases you need to remember:

Angles on a straight line add up to 180°

Angles in a triangle add up to 180°

Angles around a point add up to 360°

Angles in a quadrilateral add up to 360°

Video Links: Measuring Triangles Quadrilaterals
On a Straight Line Around a point

Topic: Ratio and Proportion

A **ratio** compares values. It shows us the **proportion** of one amount compared to another.

The quantities in a ratio are separated by a colon. For example: 3 • 4

Simplify: means to reduce to the ratio to its smallest possible integer values.

Equivalent ratios have the same proportions, but different values.

Video Links: <u>Simplify</u> <u>Find Missing Part</u> <u>Sharing in a Ratio</u>



Mathematics

Autumn Term 2

Year 7

Topic: Percentages

Percentages are part of a whole. They are out of 100.

To calculate a **percentage** (without a calculator) there are a few key methods to remember:

10% - Divide the amount by 10

5% - Half of 10%

1% - Divide the amount by 100

We use a **multiplier** to calculate percentages with a calculator. A **multiplier** is the percentage written as a **decimal**. To convert a percentage to a **decimal**, divide by 100.

Video Links: Without a Calculator Using a multiplier

Topic: Averages and Range

We use three different averages, mean, median and mode.

Mean: the mean is the sum of the values divided by the number of values.

Median: the median is the middle value when the data is put in size order.

Mode: the mode is the value (or values) that occur the most.

The <u>range</u> is measure of **spread**. It is the difference between the largest and the smallest values in the data.

Video Links: Mean Median Mode Range

Topic: Solving equations

An **equation** shows that two things are equal. It will have an equals sign.

We use the 'balance method' to solve equations. To keep the equation balanced, whatever happens to one side of the calculation must also happen to the other.

Each letter in an **equation** is called a **variable**.

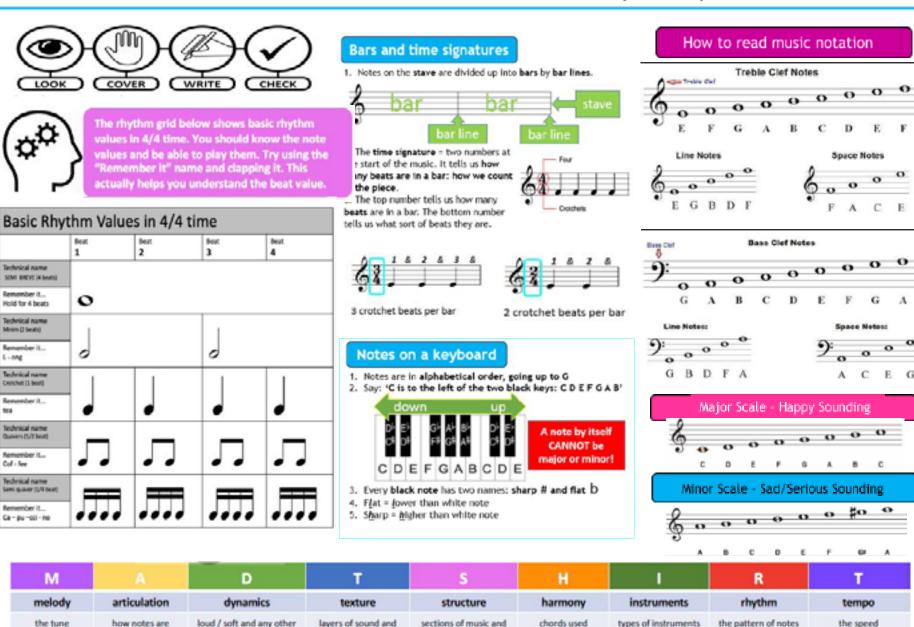
Solve: When a question asks you to **solve**, you must calculate the value of the **variable** in the equation.

Video Links (solving equations): Solving Basic Equations
Equations with the letter on both sides

Music - Basic Theory & Keywords



KNOWLEDGE ORGANISER – Year 7 – Basic Theory and Keywords



played

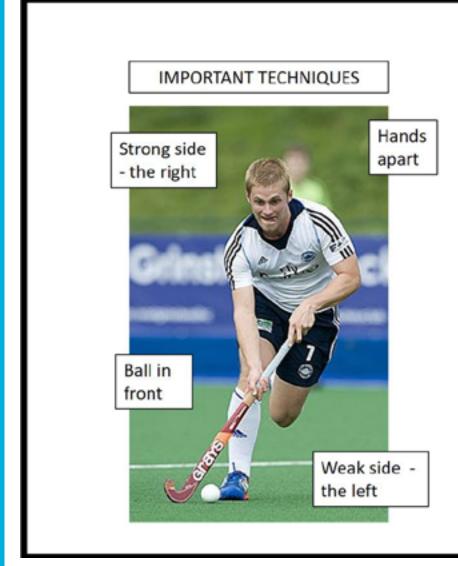
volume changes

how they are organised

heard

how they fit together



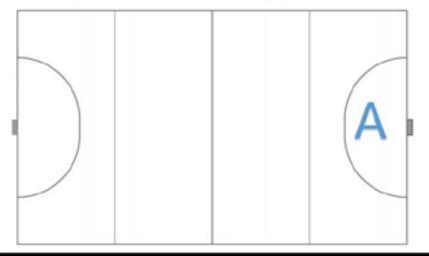


HOCKEY

Overview of the rules

The rules of hockey are very similar to the rules of football except that players must use sticks instead of their feet to play the ball. There are 11 players on a team made up of a goalkeeper, defenders, midfielders and attackers.

- 1. Use the "front" (flat) side of the stick.
- Cannot use feet.
- At re-starts or free hits, the defending team must stand 5m from the ball.
- Can only score from inside the "D" (A).



PE - Sport - Basketball



BASKETBALL

Rules for Offence

When a player has the basketball (offence) there are certain rules they must follow:

- The player must bounce the ball with one hand while moving both feet. If both hands touch the ball or the player stops dribbling, the player must only move one foot.
- Once a player has stopped dribbling they cannot start another dribble. A player who starts dribbling again is called for doubledribble.
- A player can only start another dribble after another player from either team touches or gains control of the basketball.

Defensive Rules

The team on defence is the team without the basketball.

 The main rule for the defensive player is not to foul. This means the defensive player may not touch the offensive player in a way that causes the offensive player to lose the ball or miss a shot.

Rules for everyone

- Although the foul rule is described as a defensive rule, it applies exactly the same to all players on the court.
- Basketball players cannot kick the ball or hit it with their fist.
- The positions in basketball are just for basketball strategy and there are no positions in the rules.

IMPORTANT TECHNIQUES



PE - Sport - Badminton



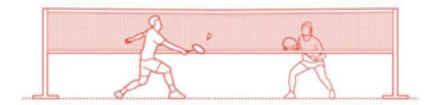
BADMINTON

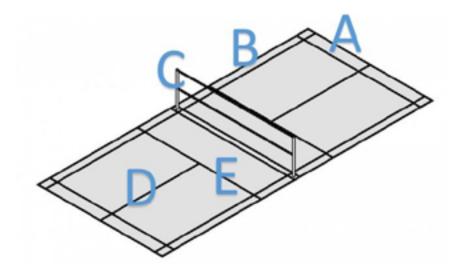
Overview of the rules

Badminton is a net game and played as singles (two opposing players) or doubles (two opposing pairs). The aim of the game is to win points by hitting a shuttlecock across the net and into your opponent's court forcing your opponent to make an error and be unable to return the shuttlecock back.

The basic rules

- You must serve underarm
- 2. A serve must reach the front service line
- 3. If the shuttle lands on the edge line of the court, this is IN
- If you win a rally, you get a point added to your score and you serve next
- 5. You can only hit the shuttle once in a row
- In a full game, the game is the first player to 21 points





A: Baseline: the end of the court

B: Side line: the side edge of the court

C: The net

D: Centre line: the middle of the court E: Service line: where a rally is started

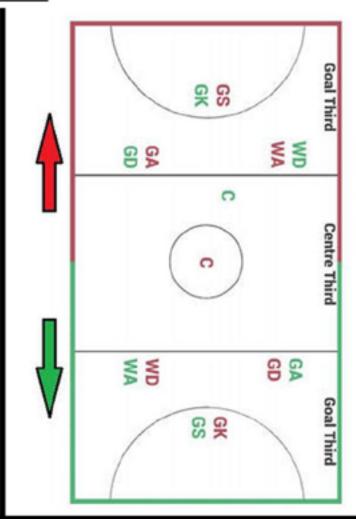
PE - Sport - Netball



NETBALL

Rules and skills of Netball

- 3 seconds on the ball Players are only allowed to have the ball in possession for 3 seconds.
- Start of a game a game starts with a pass that must be received in the centre third. This is also how a game re-starts.
- 3. Shooting -Players can only shoot form inside the "D".
- Footwork Players cannot more their landing foot (first foot to hit the floor) when they have the ball.
- 5. Contact contact is not allowed in netball
- Penalty pass Awarded for major fouls: Contact and obstruction.
- 7. Distance Defending players must be 0.9m away from the ball before putting up their arms to defend. 2.



The starting positions of the players in netball.

GS = Goal Shooter
GA = Goal Attack
WA = Wing Attack
C = Centre
WD = Wing Defence
GD = Goal Defence
GK = Goal Keeper

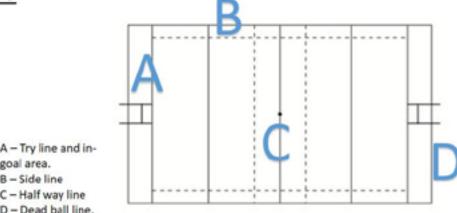


RUGBY

Overview of the general rules

Rugby has may variations but the aim of the game is very simple - use the ball to score more points than the other team.

- 1. Scoring a "try". A try is scored when the ball is placed down on the playing surface with pressure in the in goal area by the attacking team.
- 2. Moving the ball. To move the ball toward the line you can run with it, kick it and pass it. However, passing or knocking the ball forwards (unless kicked) is not allowed.
- 3. Kicking . Kicking is allowed but must kicked from the hands and not while the ball is on the floor.
- 4. Offside. Players are not allowed to receive the ball if they were in front of the ball when it was passed or kicked.
- 5. Penalties. A penalty can be awarded by the referee if any player breaks the laws of the game, this will lead to a turnover of possession. The opposition can choose to tap and run, tap and pass or kick to resume the game.
- 6. Starts and re-starts. If the ball goes out of play the ball is passed back in by the opposition. The ball is kicked from the half way line forward at the start of the match and after each try.



B - Side line C - Half way line

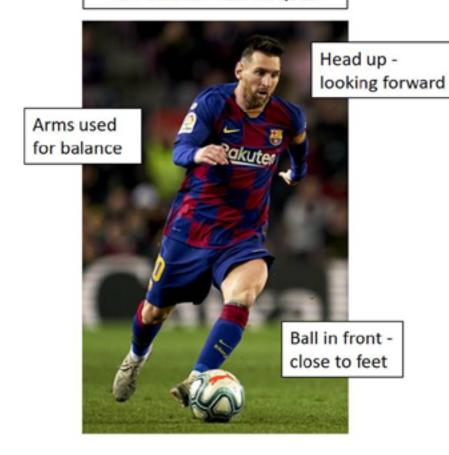
goal area.

- D Dead ball line, the end of the pitch.
- 1. Tackling rules:
- 2. The tackler must grasp/ wrap the ball carrier below the armpits, on the shirt, shorts or around the legs. The grasp must be simultaneous with, or prior to, shoulder contact.
- 3. The tackler must not shoulder barge their opponent.
- 4. When a tackle is called the player can pass the ball to team mate or present the ball on the ground for a team mate.
- The ball is not allowed to be contested by the opposition.
- TOUCH VERSION use two hands to touch the player at the waist. They then have 2-3 seconds to pass or present the ball.



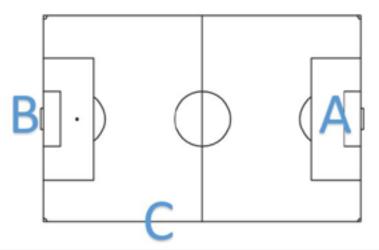
FOOTBALL

IMPORTANT TECHNIQUES



Overview of the rules

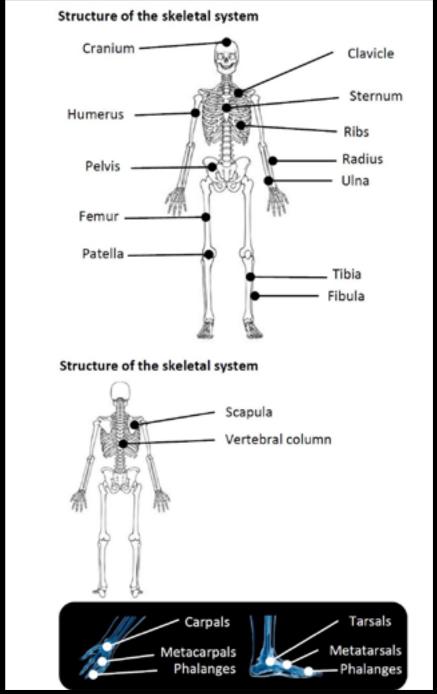
- A football match is played by two teams, with each allowed no more than 11 players on the field (9-a-side at under 12).
- All players must use their feet head or chest to play the ball. Only the goalkeeper is allowed to use their hands, and only within their <u>designated goal area (box A)</u>.
- The aim of the game is to outscore the opposition. A goal (score) is achieved by kicking or heading the ball into the opposition team's goal (B).
- If the ball touches or crosses the <u>side line (C)</u>, it is thrown back in by the team that was not the last to touch the ball.
- The game is controlled by a central referee. They award free kicks and penalties when rules are broken.



PE - Theory - Part 1

		HWCS
of the skeletal system		
m — (pye)	Clavicle	

	·		
nts	Cardiovascular endurance	The ability of heart and lungs to deliver oxygen to the working muscles.	Multi-stage Fitness Test
mpone	Muscular Strength	The ability to overcome resistance.	Grip strength dynamometer Test
Health-related components	Muscular Endurance	The ability of a single muscle or group to undergo contractions avoiding fatigue.	Sit up Test
lth-rel	Flexibility	The range of movement possible at a joint.	Sit and Reach Test
Нез	Body Composition	A comparison of the percentage of bone, fat, water and muscle within the body.	ВМІ
	Speed	The maximum rate at which an individual can perform a movment or cover distance.	30m Sprint Test
nents	Power	Explosive strength is the product of speed and strength. Speed x strength.	Vertical Jump Test
-related components	Agility	The ability to move and change direction at speed while maintaining control.	Illinois agility test
elated	Coordination	The ability to use two or more body parts smoothly and efficiently.	Wall throw test
Skill-r	Balance	The maintenance of the centre of mass over the base of support.	Stork Stand Test
	Reaction Time	The time taken to initiate a response to a stimulus.	Ruler Drop Test



PE - Theory - Part 2



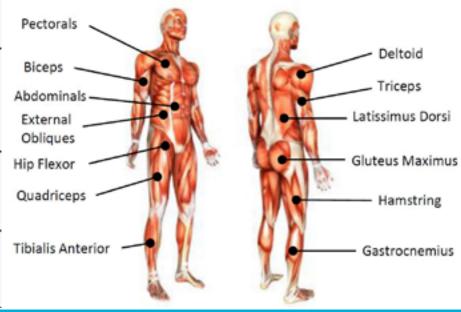
	Phases of a Warm Up (1)			
	Term Phase Description			
1	Pulse Raiser	First	Light continuous activity such as slow jogging, is used to increase heart rate and blood flow. Muscles, ligaments and synovial fluid in the joints are warmed, increasing flexibility	
2	Stretching	Second	Stretching the main muscle groups and joints increases their elasticity and mobility so that they are less likely to be strained.	
3	Skills Specific	Third	Sport specific drill performed to focus on muscle groups that come under particular stress in the planned activity.	

	Principles of a Warm Up (2)		
	Principle	Description	
1	Prepare the Body	To gradually prepare the body and mind for physical activity.	
2	Increases Body Temperature	Makes muscles, tendons and ligaments more elastic increasing range of movement and reducing the risk of injury at a joint or in a muscle.	
3	Increase Blood Flow	By increasing the heart rate, blood flow increases resulting in an increase in the oxygen being supplied to muscles.	
4	Injury Prevention	To ensure that muscles are stretched and prepared for physical activity to avoid injuries such as strains.	

	Principles of a Cool Down (3)		
	Principle	Description	
1	Prevent Muscle Soreness	To gradually allow the body and mind for recover from physical activity.	
2	Reduce Body Temperature	Allows muscles to cool down slowly reducing the chance of tightness and muscle ache to set in after activity.	
3	Reduce Heart Rate	Allows the body to slowly return to its resting state.	

	Immediate Effects of Exercise of	on the Body (1)	
	Immediate Effects of Training	Body System	
1	Increase temperature of synovial fluid	The Shelatel Section	
2	Increased flexibility	The Skeletal System	
3	Rise in muscle temperature		
4	Increased blood flow to muscles	B-11-1-1-1-1-1	
5	Increased flexibility	The Muscular System	
6	Muscle soreness (DOMS)		
7	Increased heart rate, cardiac output		
8	Blood diverted to muscles from digestion and other systems (vascular shunting)	The Cardiovascular System	
9	Increase in blood pressure		
10	Increased rate of breathing		
11	Increased rate of gaseous exchange	The Respiratory System	
12	Increased depth of breathing		

Structure of the muscular system



PSHE - Friendships



Define:

Platonic Relationship

A friendship or relationship where there is no romantic, intimate or sexual feelings. Friends and Colleagues.

Define:

Intimate Relationship

A relationship which can include a sexual attraction and sexual activity. Boyfriend. Girlfriend,

Define:

Married

Familial Relationship

A relationships with someone who has a blood, kinship or legal tie to you. Parents, Siblinas etc.

Define:

Toxic Relationship

A relationship that has a negative impact on your mental health and self-esteem.

Friendships

Good friends make you feel good	Good friends say and do things that make you feel good, giving compliments and congratulations and being happy for you.
Good friends listen	A good friend allows you to talk and doesn't interrupt you. They're interested in what you have to say.
Good friends support each other	If you're feeling down, a good friend will support you. If you need help, a good friend will try to help you out.
Good friends are trustworthy	If you tell a good friend something private, they won't share it. You can trust a good friend not to be judgmental.
Good friends handle conflict respectfully and respect boundaries	A good friend will tell you if you've done something to hurt them. If you tell a good friend they've hurt you, they'll be sorry and won't do it again.
Friends not followers	In the digital world you can feel under pressure to have a lot of friends and followers. Remember that you only need a small circle of friends to be happy,

Toxic Friendships

Sometimes people who claim to be your friends can show bullying behaviour. This is sometimes called a 'frenemy' but is a type of toxic relationship. You can spot them by:

- •They might say "brutally honest" things to you which are unkind or hurtful
- •Put pressure on you to do things you don't want to do
- •Be manipulative (e.g. 'If you were my friend you would...')
- •Put you down
- •Laugh at you, or encourage others to laugh at you
- •Talk about you behind your back
- •Deliberately exclude you from group chat and activities
- •Take the "banter" too far
- •Share things about you online
- •Make you feel bad about yourself

What to do if you are in a toxic friendship

- •Remember: the problem isn't you: Hold on to that thought. Their behaviour might make you feel bad, but they need to change, not you.
- •Talk to them about how their behaviour makes you feel: Explain calmly and without accusation. Be specific, Tell them what you'd like to happen moving forward. Their response will tell you a lot, sometimes our behaviour hurts others without us realising.
- •If they apologise, give them another chance: If they mean it, they'll change their behaviour and stop making you feel bad. However, sometimes frenemies might apologise insincerely, and their behaviour afterwards won't change. If they're still making you feel bad despite what you've told them, it's time to move on.
- •Make new friends: Moving on can be scary, but you deserve people in your life who support you and make you feel good about yourself. See our guide to making new friends for help.
- •Don't retaliate: It can be tempting to encourage others to exclude your former frenemy, or to put them down behind their back. Don't do this: you're only showing the same behaviour you found difficult in them.

PSHE - Puberty



Define:

Puberty

The process of development from child to adult. Usually consisting on both physical and emotional changes.

Define:

Adolescence

A life stage which is between the ages of 9-18 and is typically where puberty occurs.

Define:

Menstruation

Also known as a period. The process in a woman of discharging blood and other material from the lining of the uterus every 28 days. This happens up until menopause and pauses during pregnancy.

Define:

Wet Dream

An involuntary ejaculation that occurs when a person is asleep.

Physical Changes

	 Facial Hair
	 Voice Breaks
Boys Only	Erections
/s C	 Wet Dreams
Во	 Widening of the chest and
	shoulders
,	 Menstruation/Periods begin
Girls Only	Breast growth
Is C	 Stretch marks
Gir	Hips Widen
	 Growth of pubic hair
	 Spots and pimples
Both	 Greasy skin and hair
Βί	 Grow taller
	 Body Odour

Who Can you turn to for help and Support

Parents or trusted family Teachers or school Staff

members

Your Doctor or Practice School Nurse

Nurse

NSPCC Helpline: 0808 800 5000 (24 hours, every day)

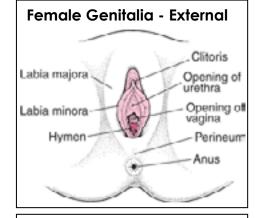
nspcc.ora.uk

Childline Helpline: 0800 1111 (24 hours, every day)

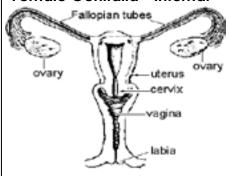
https://www.childline.org.uk

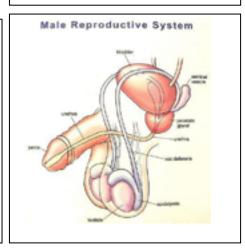
NHS Live www.NHS.UK/Livewell

Well Website



Female Genitalia - Internal





Things to Remember

- •Puberty begins at different times for different people.
- •Changes will happen at different rates and in a different order for different people,
- •Everyone goes through puberty, you are not alone.
- •Good diet and exercise can help deal with some of the physical changes.
- •Puberty is normal despite feeling very abnormal.



Year 7 Knowledge Organizer Autumn Term

Why are the 5 Pillars important to a Muslim?

Carrying out these obligations provides the framework of a Muslim's life, and weaves their everyday activities and their beliefs into a single cloth of religious devotion.

No matter how sincerely a person may believe, Islam regards it as pointless to live life without putting that faith into action and practice.

Carrying out the Five Pillars demonstrates that the Muslim is putting their faith first, and not just trying to fit it in around their secular lives.

<u>Speciesism</u>; placing one species above another. e.g. eating meat.

<u>Sentient</u>; having emotions and being aware of oneself.

Do we treat animals well? Do we take medication tested on them?

Do we eat meat and wear

leather?

A Muslim follows Islam
A Christian follows Christianity
A Jew follows Judaism

What is authority? Who has authority over us?
Think of all the reasons why this is a good thing. How can the 5 Pillars be an authority for Muslims?; give guidance and help during difficult times.

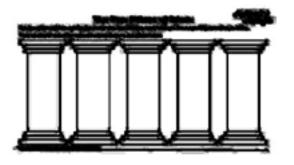
	Key Words
Shahadah (faith)	sincerely reciting the Muslim profession of faith
Salah (prayer)	performing ritual prayers in the proper way five times each day
Zakah (charity)	paying an alms (or charity) tax to benefit the poor and the needy
Sawm (fasting)	fasting during the month of Ramadan
Hajj (pilgrimage)	pilgrimage to Mecca

The Five Pillars consist of:

<u>Shahadah</u> <u>Salat</u> <u>Zakat</u> <u>Sawm</u> <u>Hajj</u>

The 5 Pillars have been around for roughly 1500 years. They pre-date many laws.

Shahadah is the most important pillar because...'

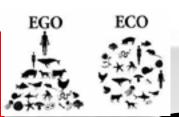




What causes suffering to humans?

Different types of suffering; emotional, physical, psychological etc. someone can be starved, called names or treated less well than their peers which all contribute towards suffering.

Peter Singer's quote is not about if they can talk or reason but if they can suffer which is the most basic emotion in terms of how we treat people.



Year 7 Knowledge Organizer

Autumn

Speciesism; placing one species above another. e.g. eating meat.

Sentient; having emotions and being aware of oneself.

Do we treat animals well? Do we take medication tested on them? Do we eat meat and wear leather?

Speciesism;

Why do we treat animals differently to humans?

Prejudice, history and how society regards animals. Most of us never think about the meat on our plate and where it has come from or whether it was treated well.

If we say we want to treat animals the

same as humans we would technically have

to give up meat, fur and medicines tested

on animals.

Science - Scientific Skills

<u>Year 7 – Scientific skills</u>

Section 1: Investigations

Stage 1 - ask a question

Stage 2 - make a prediction

Stage 3 – identify variables

Stage 4 – plan a method picking the right equipment

Stage 5 - identify any risks and put in place precautions

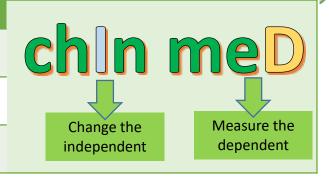
Stage 6 – record your observations or results

Stage 7 – evaluate and improve your method

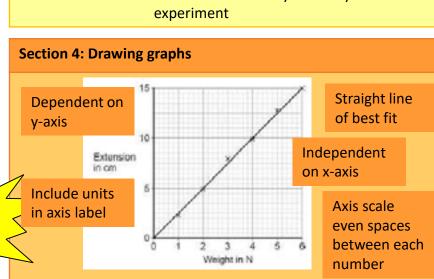
Stage 8 – analyse your results, what is the answer to your question?



Independent The thing you are changing in the investigation Dependent The thing your are measuring in the investigation Control Things which you need to keep the same to make sure it is a fair test.



Section 3: Key terms		
Accuracy	Using the appropriate equipment so your results are valid	
Precision	This is how many decimal places you make your measurements e.g. 3.24cm is more precise than 3.2cm	
Repeatability	How likely it is you would get the same results if you repeated the experiment	
Reproducibility	How likely it is someone else would get the same results as you if they did the experiment	



Section 5: Data analysis		
Mean	Add up all the values and divide by how many you have	
Range	Take the smallest value away from the largest.	
Uncertainty	Divide the range by two	

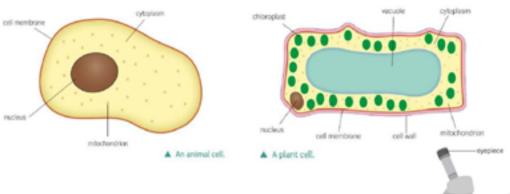


Science - Biology - Cells



Y7 Cells

Section 1: Cell Structure			Eukaryotic	
Cell Structure	Function	Animal Cells	Plant Cells	
1 Nucleus	Contains genetic information that controls the functions of the cell.	Y	Y	
2 Cell membrane	Controls what enters and leaves the cell.	Y	Y	
3 Cytoplasm	Where many cell activities and chemical reactions within the cell occur.	Y	Y	
4 Mitochondria	Provides energy from aerobic respiration.	Y	Y	
5 Chloroplast	Where photosynthesis occurs.		Y	
6 Vacuole	Used to store water and other chemicals as cell sap.		Y	
7 Cell wall	Strengthens and supports the cell. (Made of cellulose in plants.)		Y	



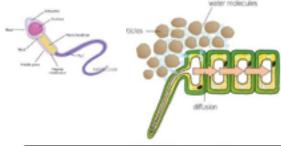
Section 3: Microscopy		
13	The degree by which an object is enlarged. Magnification= <u>sizeofimage</u> size of realobject	
14 Microscope	An instrument used to magnify objects.	



Section 2: Specialised Cells		
Specialised Cell	How structure relates to function	
8 Sperm cell	Streamlined head and long tail. Contains lots of mitochondria to transfer energy.	
9 Nerve cell	Long and thin. Transmits electrical impulses over a distance.	
10 Red blood cell	Contains haemoglobin to transport oxygen. Disc-like shape to increase surface area.	
11 Root hair cell	Long extension to increase surface area for water uptake by osmosis; thin cell wall.	
12 Leaf cell	Foundatthe top of the leaf and are packed with chloroplasts to maximise photosynthesis.	



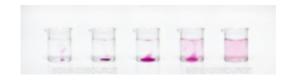




Sca	le i	of I	ma	gni	tu	de
				O		

ı				-
	1 metre	<u> </u>	person	À
	1 millimetre	10° m		ж
2	1 micrometre	10° m	Bleo boold	
	1 nanometre	10° m	atom	A.
	1 picometre	10°12 m		90
	1 femtometre	10°15 m	atomic nucleus	300
	1 attornetre	10°38 m		•
	1 zeptometre	10°21 m		
	1 yoctometre	10 ⁻³⁴ m		
		10 ⁻²⁷ m		
		10 ⁻³⁰ m		
		10°33 m	- Manck so	ale.

Section 4: Diffusion		
15 Diffusion	The movement of particles from an area of high concentration to an area of low concentration.	
16 Concentration	A measure of the number of particles of a substance in a fixed volume.	

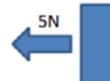


Science - Physics - Forces

Forces

Se	Section 1: Introduction to Forces				
1	Forces	A push or pull upon an object			
2	Newtons	Forces are measured in Newtons (N) using a Newton meter			
3	Interaction pair	This is formed when a force exist between objects.			
4	Forces can	Deform objects, change their speed or change their direction of motion			
5	Examples of forces	Gravity, friction and air resistance.			
6	Contact force:	A force that acts when an object is touching somethings such as friction			
7	Non-contact force:	Magnetic, electrostatic or gravitational force that acts when objects are not in contact			

Section 2	Balanced and unbalanced forces
Resultant force	The total force acting on an object:
Balanced force	When the forces acting in opposite directions are the same, the resultant force is zero. The object will remain stationary or carry on moving at the same speed.
Unbalanced force	When the forces acting on an object are different in size, the resultant force must be more than zero. The object might change speed or direction.





Investigating friction

For example, the resultant force acting on this object is 5N-5N=0N

Name of Force	What causes it?
Friction	When two objects rub together
Air resistance	When an object rubs against air particles
Reaction	A force that acts in the opposite direction
Weight	The force an object exerts on the ground due to gravity
Thrust	The force that drives on objects with an engine





Mass = 120 kg Weight = 120 x 10 = 1200 N

In this investigation you pulled different wooden blocks along the desk and measured the force required.		
Independent	The type of surface	
Dependent	The force required to move the block (N)	

Wood block and masses, M



Section 3

lass = 120 kg	ı		Newton meter
/eight = 200 N		Weight, mass and gravity	

	Section 4	Weight, mass and gravity
	Weight (N)	The force of the Earth acting on an object due to its mass
	Mass (kg)	The amount of matter an object is made up of
)	Equation	Weight (N) = mass (kg) x gravitational field strength (N/kg)

Science - Physics - Energy

Energy

Section 1	Energy basics
Energy	Measured in Joules (J). Often written in kiloJoules (kJ) energy is the ability to do work
Food	Energystorewhich we need to take into our bodies. We need different amounts of energy to do different activities.
Fuel	Energy store which we need to heat houses or make transport work.

Section 2	Energy stores
Energy to do with	Type of store
Food, fuels, batteries	Chemical
Hot objects	Thermal
Moving objects	Kinetic
Position in a gravitational field	Gravitational potential
Changing shape, stretching or squashing	Elastic
Giving out light	Light
Giving out sound	Sound
Atoms and nuclear power	Nuclear

Term	Definition
Conduction	Conduction allows energy and heat to pass through an item quickly. This is usually a solid
Convection	Convection is described as the movement of particles of gases and liquids away from a heat source to form currents.
Insulation	Materials which do not transfer energy easily from a hotter area to a cooler area are called insulators . Air and plastics are good insulators.
Radiation	All objects emit radiation. Radiation works via waves and not particles





Section 3	Transferring energy
Law of conservation of	Energy cannot be created or destroyed, it can only be stored or transferred.
energy	
Method of transferring energy	Electric current, light & sound
Wasted energy	Energy which is transferred into a store you do not want

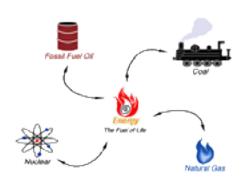
Section 4	Work done
Work done	The energy required to exert a force over a distance.

Section 6	Generating energy
Fossil fuels	Non-renewable fuels coal, gas and oil. Made from the remains of sea creatures and plants.
Renewable energy	Energysources which will not run out, such as wind, solar, tidal, geothermal, wave, biomass and hydrothermal.

Renewable Energy



Non-Renewable Energy



Science - Chemistry - Elements



Word	Definition		ents and the Periodic Table
1. Element	a substance made of only one type of atom		Property: The characteristics
2. Compound	2 or more different atoms joined together		of something.
3. Mixture	2 or more atoms and/or molecules that are not joined	together	 Chemical properties include the reactions a substance
4. Molecule	2 or more atoms chemically bonded together		can take part in.
5. Atom	smallest type of particle		 Physical properties include colour and boiling point.
6. Particle	A word that can be used to mean an atom or a molec	cule	alkali metals

The periodic table:

- The Periodic Table is a way of organising all the known elements.
- It was put together by Dmitri Mendeleev
- He left gaps for undiscovered elements and predicted their properties correctly

alkali metals																	
		transition metals															
halogens Non-metals								He telum 2									
, Li	Be becker		relatio	ve atom omic sy	ic mass mbol						Jase	8	12 C	14 N	16 O	19 F	20 Ne
3	4 24	١.		(proton) numbe	r			liqu	id		27	6	7	empen B	9 35.5	10
Na	Mg	<i> </i>	Met	als					gas			AI	28 54	P	32 5	CI	Ar Ar
11	12								9 0.0			13	14	15	16	17	18
39 K	Ga Ca	45 8c	48 Ti	51 V	52 Cr	55 Mn	56 Fe	Ge Ce	59 Ni	63.5 Cu	65 Zn	70 Ga	73 Ge	75 As	79 8e	Br	84 Kr
19	20	21	Barton 22	23	chromern 24	25	26	27	28	29	30	31	32	33	34	tenenna 35	36
85 Rb	88 Sr	89 Y	91 2r	93 Nb	96 Mo	[98] To	101 Ru	103 Rh	106 Pd	108 An	112 Cd	115 la	119 Sn	122 Sb	128 Te	127	131 Xe
37	38	39 39	40	41	42	43	44	45	patienum 46	47	48	49	50	51	Whom 52	53	54
133 Ca	137 Ba	139 La*	178 Hf	181 Ta	184 W	186 Re	190 Os	192 le	195 Pt	197 Au	201 Hg	204 TI	207 Pb	209 Bi	[209] Po	[210] At	[222] Bn
55	56	lamberum 57	habbarn 72	teristen 73	tanasten 74	75	76	77	78	79	neroes AO	81	82	83	potentian 84	metations 85	reduce.
[223] Fr	[226] Ba	[227] Ac*	[261] Rf	[262] Db	[266] So	[264] Bb	[277] Ha	[268] Mt	[271] Da	[272] Bo	[285] Cn	[286] Nb	[289]	[289] Mc	[293] Lv	[294] Ta	[294] Og
tunion 87	0.0	89	104	105	106	107	108	109	110	111	112	113	114	115	116	117	110

Spanish - Mi Vida - Part 1



Spanish Y7- Mi Vida (1)

Los número	os 1-31	Numbers	1-31
Uno	1	Diecisiete	17
Dos	2	Dieciocho	18
Tres	3	Diecinueve	19
Cuatro	4	Veinte	20
Cinco	5	Veinte y uno	21
Seis	6	Veintidós	22
Siete	7	Veintitrés	23
Ocho	8	Veinticuatro	24
Nueve	9	Veinticinco	25
Diez	10	Veintiséis	26
Once	11	Veintisiete	27
Doce	12	Veintiocho	28
Trece	13	Veintinueve	29
Catorce	14	Treinta	30
quince	15	Treinta y uno	31
dieciséis	16		

Los días	Days
Lunes	Monday
Martes	Tuesday
Miércoles	Wednesday
Jueves	Thursday
Viernes	Friday
Sábado	Saturday
Domingo	Sunday
¿Tienes	Do you
mascotas?	have pets?
Tengo	I have
Un perro	A dog
Un gato	A cat
Un conejo	A rabbit
Un caballo	A horse
Un pez	A fish
Una	A snake
serpiente	
	A mouse

Los meses	Months
Enero	January
Febrero	Febraury
Marzo	March
Abril	April
Mayo	May
Junio	June
Julio	July
Agosto	August
Septiembre	September
Octubre	October
Noviembre	November
Diciembre	December

Saludos	Greeting
Hola	Hello
Buenas días	Good day
Buenas tardes	Good afternoon
Buenas noches	Good evening
¿Qué tal?	How are you?
Bien, gracias	Good, thanks
¿Cómo te Ilamas?	What is your name?
Me llamo	My name is
¿Dónde vives?	Where do you live?
Vivo en	I live in

Los	colores	Col	ours
Blanco/a	White	Azul	Blue
Amarillo/a	Yellow	Azul claro	Light blue
Negro/a	Black	Azul oscuro	Dark blue
Rojo/a	Red	Rosa	Pink
verde	Green	Naranja	Orange
Gris	Grey	Morado	Purple
marrón	Brown	Violeta	Violet

Spanish - Mi Vida - Part 2



Spanish Y7- Mi Vida (2)

¿Qué tipo de persona eres?	What type of person are you?
Soy	I am
Divetido/a	Fun/funny
Estupendo/a	Brilliant
Fenomenal	Fantastic
Generoso/a	Generous
Genial	Great
Guay	Cool
Listo/a	Clever
Serio/a	Serious
Simpático/a	Kind
Sincero/a	Sincere
Tímido/a	Shy
Tonto/a	Silly
Tranquilo/a	Calm
Interesante	Interesting
Aburrido/a	Boring

Palabras muy frecuentes	High Frequency Words
Bastante	Quite
No	No
Mi/mis	My
Muy	Very
Pero	But
También	Also
Tu/tus	Your
Un poco	A little
Υ	And

Mi pasión	My passion
Mi pasión es	My passion is
Mi héroe es	My hero is
El deporte	Sport
El fútbol	Football
La música	Music
El tenis	Tennis
El rugby	Rugby
La escalada	Rock climbing

¿Tienes hermanos?	Do you have
	siblings?
Tengo	I have
Una hermana	A sister
Un hermano	A brother
Una hermanastra	A step/half sister
Hermanastra	313161
Un hermanastro	A step/half brother
No tengo hermanos	I don't have siblings
Soy hijo único	I'm an only child (boy)
Soy hija única	I'm an only child (girl

Estrategia 1

Look, say, cover, write, check

Use the five steps below to learn how to spell any word.

- 1 LOOK Look carefully at the word for at least 10 seconds.
- 2 SAY Say the word to yourself or out loud to practise pronunciation.
- 3 COVER Cover up the word when you feel you have learned it.
- 4 WRITE Write the word from memory.
- 5 CHECK Check your word against the original. Did you get it right? If not, what did you get wrong?

Spend time learning that bit of the word. Go through the steps again until you get it right.

Spanish - Mi Teimpo Libre



Spanish Y7- Mi Tiempo Libre

¿Qué te gusta hacer?	What do you like to do?
Me gusta	l like
Me gusta mucho	I really like
No me gusta	I don't like
No me gusta nada	I really don't like
Chatear	To chat
Escuchar música	To listen to music
Jugar a los videojuegos	To play videogames
Leer	To read
Mandar SMS	To send texts
Navegar por internet	To surf the net
Salir con mis amigos	To go out with my friends
Ver la televisión	To watch TV
Porque es	Because it is
Interesante	Interesting
Guay	Cool
Divertido/a	Fun

Las estaciones	The seasons
La primavera	Spring
El verano	Summer
El otoño	Autumn
El invierno	Winter

¿Qué deportes haces?	What sports do you do?
Hago artes marciales	I do martial arts
Hago atletismo	I do athletics
Hago equitación	I do horseriding
Hago gimnasia	I do gymnastics
Hago natación	I do swimming
Hago el ciclismo	I do cycling
Juego al baloncesto	I play basketball
Juego al fútbol	I play football
Juego al tenis	I play tennis
Juego al voleibol	I play volleyball
Juego al rugby	I play rugby
Juego al cricket	I play cricket

¿Qué tiempo hace?	What's the weather?
Hace calor	It is hot
Hace frío	It is cold
Hace sol	It is sunny
Hace buen tiempo	It is good weather
Hace mal tiempo	It is bad weather
Llueve	It rains
Nieva	It snows
Hay tormentas	There are storms

¿Qué haces en tu tiempo	Greeting
libre?	
Bailo	I dance
Canto	I sing
Hablo con mis amigos	I talk with my friends
Monto en bici	I ride my bike
Saco fotos	I take photos
Toco la guitarra	I play the guitar
Hago deportes	I do sports
Toco el piano	I play the piano

Palabras m	uy frecuentes	High frequ	ency words
Con	With	Porque	Because
Cuando	When	También	Also
Mucho	Lots/a lot	Υ	And
0	Or	A veces	Sometimes
Nunca	Never	De vez en cuando	From time to time
Pero	But	Todos los días	Everyday

Spanish - Los Verbos

Spanish Y7- Los verbos

Verbos Claves	Key Verbs
Me llamo	My name is
Soy	I am
Es	He/she is
Somos	We are
Son	They are
Tengo	I have
Tiene	He/she has
Tienen	They have
Hago	I do
Juego	I play
Está	It is (location)
Voy	I go
Me gusta	I like
Me encanta	I love
Odio	I hate
Vivo	I live

Los verbos -AR		AR Verbs
Yo	1	0
Tú	You	As
Él/ella	He/she	Α
Nosotros	We	Amos
Vosotros	You (pl)	Áis
Ellos/ellas	They	an

Los verbos -ER		ER Verbs
Yo	1	0
Tú	You	Es
Él/ella	He/she	Es
Nosotros	We	Emos
Vosotros	You (pl)	Éis
Ellos/ellas	They	En

Los verbos -IR		IR Verbs
Yo	L	0
Tú	You	Es
Él/ella	He/she	Е
Nosotros	We	Imos
Vosotros	You (pl)	Ís
Ellos/ellas	They	En

