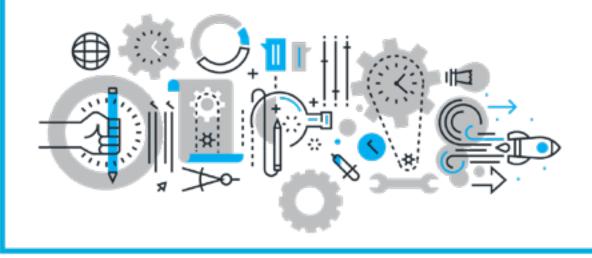


Year 7 Knowledge Organiser

Spring Term



How do I complete Knowledge Organiser Homework?

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



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 selfquizzing 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 - SPRING TERM



Contents		Music - Classical Music
Art - Cubism	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 1	12	PSHE - Nuisance in the Community & Cycling Safety
D&T - Steady Hand Game 2	13	PSHE - Keeping Safe
D&T - Door Stop 1	14	RE - Part 1
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D&T - Food Technology	18	Science - Chemistry - Acids & Alkalis
Drama 1	19	Science - Physics - Space
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English	21	Spanish - Mi Familia y Mis Amigos - Part 1
French - Core Language	22	Spanish - Mi Familia y Mis Amigos - Part 2
French - Basics	23	
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Geography - China	26	
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History	28	
ICT - Computer Systems	29	
Maths - Spring Term 1	30	
Maths - Spring Term 2	31	

Art - Cubism



STILL LIFE

A painting or drawing of an arrangement of objects, typically including fruit, flowers and other inanimate objects.

https://wiki.kidzsearch.com/wiki/Still_life

3.

Genre focus

Cubism A revolutionary style of modern art developed by Pablo Picasso and Georges Braques in 1907. It aims to show all the possible viewpoints of a person or an object all at once. It is called Cubism because the items represented in the artworks look like they are made out of cubes and other geometrical shapes. The **Cubists** challenged conventional forms of representation, such as perspective, which had been the rule since the Italian Renaissance. Their aim was to develop a new way of seeing which reflected the modern age.







Literacy focus

2.

4.

Cubism

Still Life

Texture Relief

Still life 2D

Subject Background

Shape

Midground

Foreground

Primary colour

Monochromatic

Secondary colour

3D

1

Year 7 Project 2 Still life + Cubism



Artist focus



Pablo Picasso

Picasso was born in Malaga in Spain in 1881. Even as a child he was better at drawing than many adults. He could draw and paint just about anything, and in any style. He liked to experiment and try out new ideas, which is important if you are an artist, because the world is always changing. In 1904 when he was 23 he moved to Paris. This is because Paris was the capital of the avant-garde, which means cutting-edge and very cool. Picasso became friends with lots of artists and writers, like Georges Braque (who he invented cubism with) and a writer called Gertrude Stein (who collected art + wrote a cubist book). He became interested in art from other continents too. Pablo Picasso is one of the most famous artists of the twentieth-century because he helped us to see the world in new ways

https://www.coolkidfacts.com/pablo-picasso/

6.

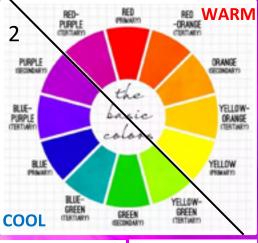
Art - Colour



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 form of communication, **colour** is irreplaceable.

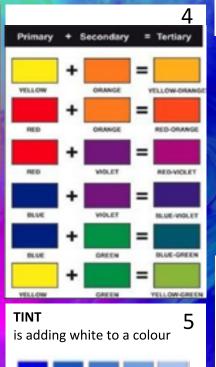
COLOUR WHEEL





Cool colours painting





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



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

SECONDARY



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

TERTIARY



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

COMPLEMENTARY

6

COLOUR SCHEMES



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

HARMONIOUS



Uses three or four colours (primary, secondary and tertiary) that are 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.

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

Art - Drawing



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

Line drawing

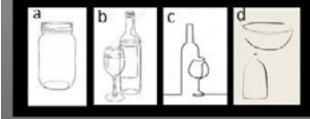
1 ELLIPSES: The circle found at the top and the base of a cylindrical object; i.e. bottle, cylinder, etc. Ellipse can also occur when the sides of the bottle change direction, i.e. get narrow or wide.

2 CENTRE LINE: Divides the object vertically in two equal parts. LINE OF SYMMETRY: the line at which the bottle is symmetrical. Mirror image symmetry: exactly matching opposite sides

3 POSITIVE SPACE: (Object in white) The space occupied by the object/s.

NEGATIVE SPACE: (All in block) The rest of the space around or in between the object/s.

4 LINEAR DRAWING A drawing using line only to: a) outline the shape of the object: b) to add detail; c) using continuous line (without lifting your pencil of the paper from start to finish. d) Minimalist drawing



Tonal drawing

5 FLAT TONE: A solid block of tone. see Tonal Ladder. It has no outlines. Different flat tones next to each other define shapes.

6 SHADING:

When the tone gradually changes from dark to light. It can appear a) smooth or b) rough by using lines called Hatching or Cross Hatching.

SHADING (light from the side): On the outside of the object the tone changes gradually from one side to the other. Light and dark areas swap direction on the inside opening of the object like in this cup.

SHADING (light from the centre): The tone is dark on both sides and smoothly gets light in the middle. It gives a 3D effect and looks very realistic.

7 TEXTURE and MARK-MAKING: Texture is the surface quality of something. Artists use mark-making techniques to represent different textures.

Hatching



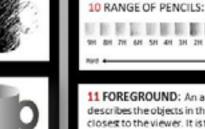
Cross-Hatching in 2,3 or more directions















9 PERSPECTIVE:

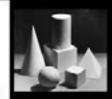
the art of representing three-dimensional objects on a two-dimensional surface

so as to give the right impression of their height, width, depth and position in relation to each other.



11 FOREGROUND: An art term that describes the objects in the scene that are closes to the viewer. It is the part in front of everything else and has the most detail.

MIDDLE GROUND: lies between the foreground and background of a painting. The objects in this area appear smaller. They are usually placed behind the objects in the forcground.





BACKGROUND: is the part of a scene or picture that is farthest from the viewer. It usually has the least detail.

12 COMPOSITION:

Refers to the organisation, arrangement, and combination of objects within the borders of a drawing space. For a great drawing, you want to bring the eyes of the viewer toward your centre of interest within an aesthetically pleasing composition.

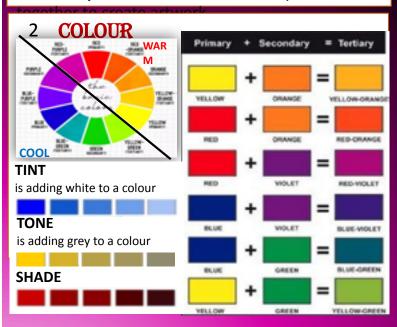


1



FORMAL ELEMENTS

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



PATTERN 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 4

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



5 SHAPE 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 GEOWETRIC SHAPES around it. The space between the shapes is

6 FORM

called negative space.

is a three dimensional shape (3D), such as a cube, sphere

or cylinder. Sculpture and 3D design are about creating forms. In 2D artworks, lines, tones and perspective can be used to create an illusion of form. The three dimensions of form are width, length and depth.

TONE is the lightness or 7 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.

Visual texture is created using marks to represent actual texture. It gives the illusion of a texture or surface. You can create visual texture by using different lines, shapes, colours or tones.



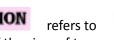


10

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

9





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

NETCOMMENDATIVE SIZE OF PARTS OF -

10

9

8

7

6

5

4

з

2

1

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.

fine lines, straight edges and stripes.

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.

CP

(NOT)

ROUGH

3 WATERCOLOUR TECHNIQUES:

 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

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

ACRYLIC PAINTING SURFACES: Canvas, paper, wood, or anything which is neither greasy nor too glossy.

ACRYLIC PAINTING BRUSHES: 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. a) Tonal Grounds Under Painting

a) Tonar Grounds Onder Painting

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.



t Lint

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.







YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM



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



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 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

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

- Rough
- Coarse
- Uneven

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 ٠
- ٠ Contrasting
- Muted
- ٠ 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

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.

2. How to use the camera

On/off button

Portrait mode

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 vou take it

- -Use simple backgrounds; plain walls
- work well

-Get closer. DO NOT use zoom -Don't rush -Take more than one photo

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

9

Subject Contents

Elongated Texture

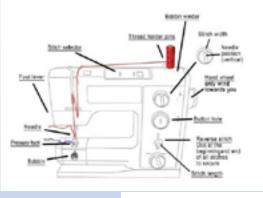
- Fine
- Smooth

Art - Textiles and Clay

TEXTILES

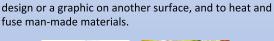
1.SEWING MACHINE

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



Zigzog stitch	~~~~~
Three-step zigzag stitch	~~~~~
Lightning bolt stitch	44444
Theorem of the state of the state of	

2. HEAT PRESS A machine which uses heat and pressure, to transfer a





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.



Key Stage 3

CLAY MAKING

Do not use ANY equipment before training

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

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

Applique

5. Couching



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

7. Greenware **Pinch pot**







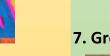






Subject Contents

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM



Dance







H



	Term	Definition	
s	Timing	moving to the beat of the music and/or your group.	
skill	Energy	performing actions with the full amount of effort required.	
	Movement memory	remembering all of the movements.	
nin	Accuracy	making the correct shapes with your body.	
erforming	Facial expressions	showing the mood of the dance through your face.	
Per	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.	

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

Term	Definition	Т
Actions	the dance movements.	Sequence
Levels	the different heights the dancer reaches whilst performing.	Choreography
Formations	the positions or shape that the dancers stand in.	Rehearsal
Directions	the direction of travel or the way that the dancers are facing.	Venue
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		

nents whilst maintaining a low	nre	Narrative dance tells a story and has characters.
ften uses floor work, lifts,	Gel	Abstract dance places importance on the movement rather than portraying a storyline.

Choreography skills

Styles

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.

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 subsystem. The systems diagram for the alarm would include this sub-system as a single output block.



D&T - Steady Hand Game 2



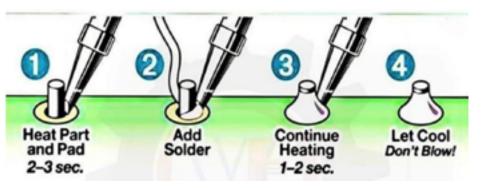
Year 7 Design and Technology Knowledge Organiser Steady Hand Game

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.



Polymers

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 polyment

Type Properties		Typical usos	
PMMA (poly(methyl methacrylate))	Known by the trade names Acrylic and Parspex Can be transparent Hard wearing and tough Softens between 85°C and 165°C	Plastic windows, bath tubs	
HDPE (high-density polyethylene)	Strong and stiff Softens at about 130°C	Pipes, buckets, bowls	
PET (polyethylene High strength and good toughness Heat resistant Softens at about 80°C		Drinks bottles, food pockaging	
HIPS (high-impact 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	3D printing, children's toys	

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

D&T - Door Stop 1

Year 7 Design and Technology TEXTILES / DOOR STOP Knowledge Organiser

HINCS

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:

from oil, coal or petrochemicals.

Some common fibres

Natural fibres come from plants and animals.
 Synthetic fibres (manufactured fibres) come



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

Туре	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 beits; ropes; tents
Acrylic	Synthetic - petroleum	Strong: burns and melts; good insulator	Knitwear; knitted fabrics; fake fur; upholstery

Weaving and Knitting into Fabrics

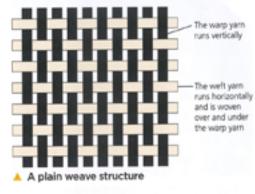
Types of material and their uses

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.

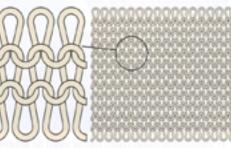


Knitting

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

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

D&T - Door Stop 2



Year 7 Design and Technology TEXTILES / DOOR STOP Knowledge Organiser

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.







Follow the direction of the red thread on the diagram on how to correctly thread the sewing machine

SECTION 1. ESSENTIAL PARTS Name of Parts

- Second State 1997
- , Maria gandia
- trape to adde to the
- J. Station Street
 J. Schenker Street
- Area 2.00
- Butter a the first and some
- Developments
- Thread Date of the Thread Island Date
- Figure 1, the
- Quality (1965) 261
- e Norme puite
- Cotemportation

Charles the second state of the s

ne geskretes oprådet som Nettor gestre stretes

 The second s second seco

Or consistent of the state o

Print and the print of the first of the second

Note: A second s

Embellishments and surface decoration techniques

Tie-dye		The colour of fabric can be changed by dyeing. Th tie-dye method involves folding, twisting, pleating or crumpling the fabric and tying it with string or rubber bands. The fabric is then placed in a dye bath. The tied areas do not absorb the dye and this forms a pattern.
Appliqué		Appliqué is a method of stitching fabric pieces ont a base fabric to create a design. Different stitches can be used to hold the fabric pieces in place. Complex designs can be created by using several pieces of fabric.
Decorative t	echniques	
Fabric paints		Fabric paints can be applied directly to fabric. Once the paint is dry, it needs to be fixed using a hot iron. Fabric felt pens and pastels can be used in the same way.
		the paint is dry, it needs to be fixed using a not iron. Fabric felt pens and pastels can be used in the

D&T - Picture Frame 1



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

ΤοοΙ	Image	Use
Coping Saw		Cut sheet material s to irregular shapes. This saw can cope with cutting curves.
Tenon Saw	IRWIN 16	Cut timber in a straight line.
Try Square		Use to mark out perpendicular waste lines ready for cutting accurate 90
Workbench Vice	- An	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 2



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 High-quality furniture		
Oak	Very strong and hard Light brown colour			
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		
Baisa	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, fumiture
Spruce	Strong and hard, but low resistance to decay Yellowish-white colour	Wooden aircraft frames

Box Joint

Finger Joint

Haff Lap Cross Lap Cross Lap

Sources of timber

Timber is made from trees that are chapped down and then cut into planks in a sawnill. The wood may be seesoned offer outling, which means that it is diied before use to remove moltater. Seasoning makes wood lens likely to distort or warp.

Timber can be a renewable resource if grown in well-managed forests. Responsible management, includes planting new trees as older trees are cut down. Timber grown this way can be identified by the Forest Stewardship Council® (FSC®) 100% daim or label.



YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

D&T - Food Technology



Knowledge Organiser – Year 7 Food Technology Fruits and Vegetables

We need macro and micro nutrients in different

amounts as they have different roles within our body.



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



liquids

mi, cz, g, pints

Saide

g and se.

Used to Measure ...

Unit (e.g. grams, etc.)



Vitamins

Minerals

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

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.



ENVIRONMENTAL HEALTH OFFICER

Safe Cutting Techniques **Claw Grip Bridge Hold**





YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

oulds and solids

ml + spoons + cup

Drama 1

12 12 11 Year 7 - Drama - Term 2





	/	li— ir-k (li—					
	Term	Definition	Character				
	Characteristics	Three words that sum up your character's personality i.e. Proud, Powerful & Cruel or Shy, Nervous & Determined.	Design				
	Physicality	The way a character moves. This communicates their personality or mood.	Proud, Powerful & Cruel. Or				
	Facial Expression	The emotion or attitude on your character's face.	Shy, Nervous & Determined.				
	Eye Line	Where are they looking?					
Skills		e.g. Up = Proud or Arrogant. Straight Ahead = Determined or Honest. Down = Nervous or Shy. Side to Side = Shifty or Untrustworthy.					
cal	Posture	The position of the body to communicate character.					
Physical		e.g. Standing with a straight back = High Status or Pride. Slumped = Lazy or Tired. Hunched Over = Low Status or Low Self-confidence.					
	Gesture	An expressive movement to show a feeling or characteristic.	•				
		e.g. Fiddling with fingers = nervous. Punching fist into hand = aggressive.					
	Walk	The way you walk can express your character.					
		e.g. Long strides = Confident. Small steps = Nervous. Walking in straight lines = Purpose and Determination. Walking in curves = Dreamy or Thoughtful.					
<u>ه</u> ه	Term	Definition					
Vocal Skills	Vocal Clarity	How clearly the audience can hear your voice.					
> v	Vocal Expression	the different heights the dancer reaches whilst performing.	When you make a comment about a				
c	Term	Definition	strength or a weakness you must				
	Evaluation	Working out what was good about the performance and what could have been better.	 always do these three things: → Describe the strength/weakness. 				
Evaluatio Skills	Strength	What was good about the performance.	\rightarrow Give an example of the strength/weakness.				
Eva	Weakness	What could have been better about the performance.	 → Explain why it made the performance better/ worse. 				

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

Drama 2





		Term	Definition	Example Script
	Script	The things the characters do and say.	(A wood at night. Dave and Kelly enter U.S	
		Dialogue	The words the characters say on stage.	from USL. Dave is struggling to carry a big, heavy looking backpack. Kelly is
		Stage Directions	The things the characters do on stage.	carrying an identical one and making it
	S	Casting	Deciding which actor will play which character.	look easy.) D K
	Skills	Highlighting	Highlighting your lines helps you find them quickly while you're rehearsing. Do not high-	Dave: This bag is so heavy! I need a rest. D.S
			light your name or stage directions , only your	(He dumps his bag on the floor and sits
Scripted	cript	Read Through	Sit in a circle and read the play out loud, play-	<i>down)</i> Kelly: Don't be such a wimp! Give it here.
	s I	Staging Blocking	Deciding how you will set up your stage.	(Kelly picks up the bag with ease and U.S
			Deciding where you will stand on stage.	walks off USR)
		Rehearsing	Practicing how you will perform the scene.	Dave: Fine! Go! I'm staying here and
		Dress Rehearsal	The final rehearsal before the performance. You treat this as if it were a performance - you don't stop, you cover any mistake and you	having a rest.D(In the bushes something growls)D.S
				Dave: Ummm on second thoughts,
		Term	Definition	wait for me!
		Dialogue Name: Dialogue, dialogue, dialogue.		(Dave jumps up and runs off after Kelly)
Script Format	Stage Directions Written in <i>italics</i> or (brackets).			
		Stage Diagram	Draw a bird's eye view of your stage and draw arrows showing where everyone stands and moves.	D.S

English



IMPORTANT TERMS

 $\label{eq:MORPHEME-A chunk' of a word that carries meaning.} Morphemes are the smaller components that words are made of.$

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 the roots in the box to the right.

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 5^{th} 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.*

English	Departr	nont 🖵
\rightarrow	12 /4N	R /
11	<u> </u>	

HWCS

Morphology

Term

ROOT MORPHEMES - LATIN ORIGIN

Root morphemes are 'chunks' of words that carry a certain 'flavour' of meaning. These roots appear in many different words, and they always signal the same meaning. If you can recognize the root in a word that you don't know, this will help you work out what the word means.

Root morpheme	Meaning
spect	to look/see
rupt	to break
port	to carry
struct	to build
grad/gress	to step
flec/flex	to bend
vert/vers	to turn
tract	to pull

່ວດ	
ũ	
·C	
ā	
S	ROOT MORPHEMES - GREEK ORIGIN

Root morpheme	Meaning
graph	write/draw
photo	light
phon	sound
morph	form/shape
chron	time

PREFIXES - LATIN ORIGIN

These are morphemes added to the **beginnings** of words in order to alter the meaning in some way.

Prefix	Meaning
de-	away/remove
dis-	apart/opposite
pre-	before
con-	with
inter-	between
intro-	inwards
ex/e-	out of
pro-	forwards
sub-	below
re-	back/again
trans-	across

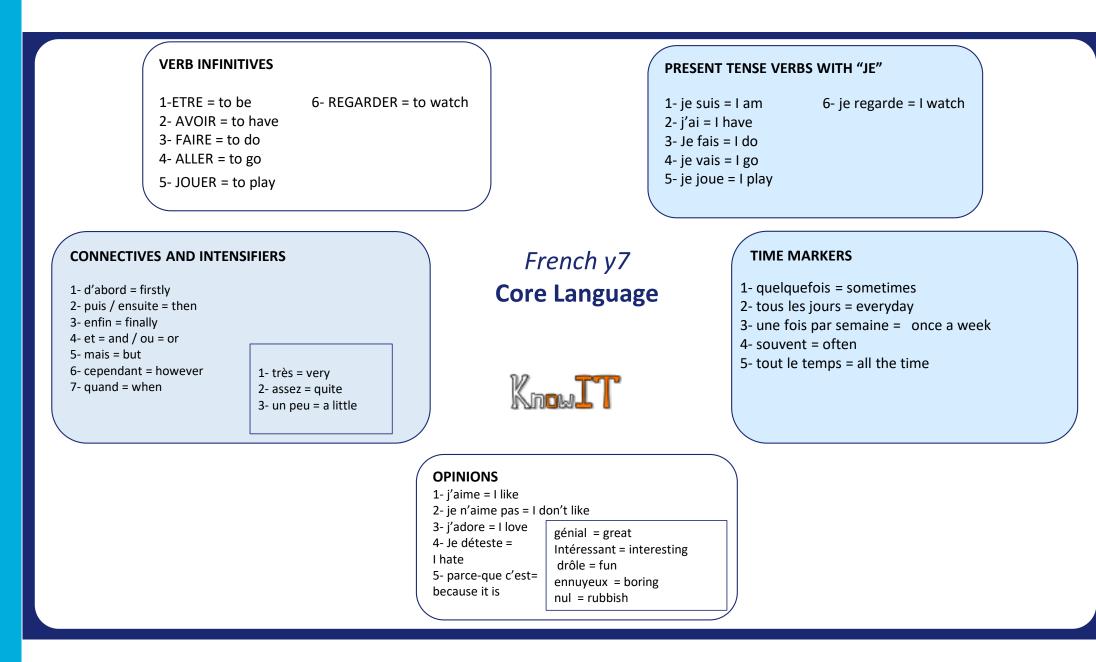
PREFIXES - GREEK ORIGIN These are morphemes added to the beginnings of words in order to alter the meaning in some way.					
Prefix	Meaning				
geo-	relating to Earth relating to life				
bio-					
tele-	far off/distant				
anti-	against				
auto-	self				
mono-	one				
poly- many					

PREFIXES – ANGLO-SAXON ORIGIN These are morphemes added to the beginnings of words in orde to alter the meaning in some way.				
Prefix	Meaning			
un-	opposite			
mis-	bad/wrong			
be-	to make/cause			

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

French - Core Language





YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM



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 ça = so so Comment tu t'appelles = What's your name? Je m'appelle... = My name is...

Age and numbers

Quel âge as-tu? = How old are you? J'ai.... ans = I am.... years old. 1 = un14= guatorze 2 = deux15= guinze 3= trois 16= seize 4= quatre 17= dix-sept 5= cina 18= dix-huit 6 = six19= 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 12= douze 13= treize

Basics in French

Days and months

Mon anniversaire c'est le... = my birthday is... Mars = March Lundi = Monday Avril= April Mardi = Tuesday Mercredi = Wednesday Mai = May Jeudi = Thursday Juin = June Jullet = JulvVendredi = 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 = blueun 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 un hamster marron / brun = brown une souris = a mouse blanc = white qui s'appelle = called.. noir = black

Descriptions

J'ai les yeux bleus / verts/ marron / noirs = I have blue / green/ brown/ black eyes J'ai les cheveux blonds / bruns / roux / noirs = I have blond / brown / red / black hair Je suis = I am drôle = funny intelligent(e) = clever paresseux / paresseuse = lazy timide = shy sportif / sportive = sporty

French - Topic 2 - Mon College



MON COLLECE

					FRENCH	//- TOPIC 2 -	MON COLL	_EGE
Les matières scolaires • S le français le théâtre la géographie/la géo la musique la technologie l'anglais (m) l'EPS (f) l'histoire (f) l'informatique (f) les arts plastiques (m) les mathématiques/maths (f) les sciences (f)	Cchool subjects French drama geography music technology English PE history ICT art maths science	Les raisons • Reasons C'est intéressant ennuyeux facile difficile génial nul marrant On a beaucoup de devoirs. Le/La prof est sympa. Le/La prof est trop sévère.	It's interesting boring easy difficult great rubbish fun/funny We have a lot o homework The teacher is The teacher is too strict.	of L nice	L'emploi du temps • le lundi le mardi le mercredi le jeudi le vendredi À [neuf heures] j'ai [sciences]. le matin l'après-midi le mercredi après-midi la récréation/la récré le déjeuner	The timetable on Mondays on Tuesdays on Wednesdays on Thursdays on Fridays At [nine o'clock] I've got [science]. (in) the morning (in) the afternoon on Wednesday afternoon breaktime lunch	Les mots essentie à et aussi mais très trop assez un peu pourquoi? parce que beaucoup (de) tous les jours aujourd'hui	Is • High-frequency words at and also but very too quite a bit why? because a lot (of) every day today

COCNELLYZ TODICO

Les opinions • Opinions	Quelle heure est-il?	What time is it?	La journée scolaire • The school day
Tu aimes/Est-ce que tu aimes?Do you like?J'aimeI likeJ'aime beaucoupI like a lot.J'aime assezI quite likeJ'adoreI loveJe n'aime pasI don't likeJe détesteI hateC'est ma matière préférée.It's my favourite subject.Moi aussi.Me too.	Il est huit heures huit heures dix huit heures et quart huit heures et demie neuf heures moins vingt neuf heures moins le quart midi minuit	It's eight o'clock ten past eight quarter past eight half past eight twenty to nine quarter to nine midday midnight half past twelve	La journée scolaire • The school day On a cours (le lundi). We have lessons (on Mondays). On n'a pas cours We don't have lessons On commence les cours à We start lessons at On a quatre cours le matin. We have four lessons in the morning. On étudie neuf matières. We study nine subjects. À la récré, on bavarde et on rigole. At break, we chat and have a laugh. On mange à la cantine. We eat in the canteen. On finit les cours à We finish lessons at On est fatigués. We are tired.
T'es fou/folle. You're crazy.		(midday/midnight)	

French - Topic 3 - Mes Passetemps



Lesport • Sport			FRENCH Y7- T	OPTC 3 - MES	PASSET	EMPS
Je joue	I play				1700011	
au basket	basketball				ō	
au billard	billiards/snooker	Quand? • When?	Les ordinateurs et le	es portables	PRESEN	T of –ER verbs
au foot(ball)	football	en été in summer	Computers and		Thesen	For Enterbo
au hockey	hockey	en hiver in winter	Qu'est-ce que tu fais	What do you do/are		
au rugby	rugby	quand il fait beau when it's good wea	ther	you doing	To form th	he present of -er
autennis	tennis	quand il fait chaud when it's hot	avec ton ordinateur?	on your computer?	verbs,	
au tennis de table/	table tennis	quand il pleut when it rains	avecton portable?	on your mobile phone?		off the ER
au ping-pong		quand il fait froid when it's cold	Je joue.	I play/I'm playing		the endings-
auvolleyball	volleyball			games.		me enungs-
à la pétanque/aux boules		Gu'est-ce que tu • What do you	Je surfe sur Internet.	I surf/I'm surfing the net.	Jee	Je jou <mark>e</mark>
sur la Wii	on the Wii	aimes faire? like doing?	Je tchatte sur MSN.	I chat/I'm chatting	<u>Tu</u> e	
Tu es sportif/sportive?	Are you sporty?	le soir/le weekend in the evenin		on MSN.	∐ e	
Je suis (assez) sportif/	l'm (quite) sporty.	at the weekend	JIC POSTIPACIONS CHOS VICTOR		Elle e	FILe joue
sportive. Je ne suis pas (très)	Pre-pat Grap Assesses	le samedi matin/ on Saturday	and the set	video clips.	Опе	Onioue
sportif/sportive.	I'm not (very) sporty.		an relaction So	I download/I'm	Nous	ons Nous jouons
Mon sportif/Ma sportive	My favourite sportsman/	Jaime Ilike	Jenvoie des SMS.	downloading music.	Vous	-sz Vous jouez
préféré(e) est	sportswoman is			I text/I'm texting.	Ils	
		retrouver mes amis meeting m en ville. in town.	mes copains/	friends/mates.	Elles	Lie Jeaonn
u'est-ce que tu fais?	What do you do?		man continue.	menuagrinanea.		Elles jouent
e fais du judo.	I do judo.	regarder la télévision watching	J'envoie des e-mails.	I send/I'm sending		
	I do parkour.	(la télé).		e-mails.	ò	
	I go ice-skating.	jouer sur ma playing on			_	
fais du roller.	I go roller-skating.	PlayStation. PlayStation				joue au / à la
	I go skateboarding.	écouter de la musique listening te	La trequence •	Frequency		fais du / de la
	I go cycling.	faire les magasins going shoj	oping.	sometimes		
e fais de la danse.	I do dance.	faire du sport doing spor	rit.			
		jouer au football playing fo		often		
	I do gymnastics.	traîner avec mes copains hanging o	ut with my tous les jours	every day		Bonjourd
	I go swimming.	mates.	tous les soirs	every evening		
e fais de l'équitation.	I go horse-riding	téléphoner à mes phoning	tout le temps	all the time		
e fais des promenades.	I ao for walks.					

my mates.

copines.

Je fais des promenades. I go for walks.

de temps en temps

une fois par semaine

deux fois par semaine

from time to time

once a week

twice a week

Geography - China



Year 7 Geography Knowledge Organiser Term 3 : China

Location of China	Population Distribution	Population Pyramids	Rural-Urban Migration	
China is located in the Northern Hemisphere in the east of Asia. The capital city is Beijing and other large cities are Shanghai and Wuhan. Bordering countries include Mongolia, Nepal, Tibet and India. The Yangtze River starts in Tibet and flows east where it enters the East China Sea at Shanghai and the country covers approximately 9.6 million square kilometres.		A population pyramid is a is a graphical illustration that shows the distribution of various age groups in a population.	Why are people migrating to urban areas in China? Image: China areas in China?	
Impacts of Migration in China	Speak Like a Geographer	Fieldwork	Skills	
 Pollution (noise, water, waste, air, visual) Nine out of ten of the world's most polluted cities are in China. Air pollution costs the Chinese economy \$25bn a year in health costs Over half the concrete used in the world last year was poured into China - this threatens wildlife More than 70% of China's rivers and lakes were polluted from industry and untreated sewage. Large parts of China's longest river, the Yangtze, have been irreversibly polluted. Two million people had suffered diseases caused by drinking water with high arsenic content, including cancer. 	Sustainability, Population, Population density, Rural, Urban, Rural-Urban Migration, Population pyramids, Pollution, Social, Economic, Environmental, Choropleth Maps, Advanced Country (AC) Emerging Developing Country (EDC), Low Income Developing Country (LIDC), Limitation, Reliability, Accuracy	Centusoros Conclus	 Choropleth Map: Advantages: Visually effective - can see a large amount of information and general patterns Disadvantages: Map assumes the whole region/area has the same value, but there could be variations 	

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

Geography - Ecosystems



Year 7 Geography Knowledge Organiser Term 4 : Ecosystems

Biomes of the World	Types of Biomes	Coral Reefs	Threats to Coral Reefs	
Biomes of the World What is the general pattern? Use inves of iotitude Name of oceans/seas Give at least 2 country examples Use compass directions	An ecosystem is a natural area in which plants, animals, and other organisms are linked to each other, and to the non-living elements of the environment. A biome is a large scale ecosystem. Each ecosystem is made up of biotic (living) and abiotic (non-living) elements. Examples: Coral Reefs: Australia, Indonesia Tropical Grasslands: Ghana, Angola Hot Deserts: Egypt, Morocco, Libya Temperate Forests: UK, Japan	 For coral to grow, there needs to be: Warm water all year around with a mean temperature of 18°C. The water needs to be clear and shallow. The water cannot be deeper than 30 metres. Beyond this, there is not enough sunlight for photosynthesis. A continental shelf. This is located on the seabed around the land, before the water depth increases. 	Pollution from boats, walking on the reef, runoff from sunscreens and many other activities all damage the reef. Corals cannot survive if the water temperature is too high. Harmful tourists litter the reef and break pieces off to take home as a souvenir which kills the coral and the fish. Destructive fishing methods like blast fishing or dynamite fishing damages the reef.	
Responses to threats	Speak Like a Geographer	Fieldwork	Skills	
There are five main gyres in the world's oceans. These trap plastic and rubbish and affect marine wildlife. Several attempts to reduce the amount of plastic in the ocean have been introduced. 1. A litre of light 2. The flip flop recycling company 3. The Plastiki	Biotic, Abiotic, Flora, Fauna, Climate Zones, Coral reefs, Coral Bleaching, Threats, Overfishing, Goods, Services, Waste	Evaluation Conclusions Data analysis	 How to draw a field sketch Draw a frame to the size you want the sketch to be. Lightly draw lines dividing the frame into four quarters. These will help you to draw the rest of the sketch, acting as guidelines. The lines can be erased when the sketch is complete. Draw in the most important lines, such as rivers, coastline and the outline of hills. Draw in the less important features, such as communication lines. Add appropriate labels and annotations. Rub out the lightly drawn lines that divided the sketch to start with. 	

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

History



Year 7 History: Spring term Part 1. Kings & Queens- Who's who? 1. Catholic Henry VII (1485-1509) Henry VIII (1509-1547) Christ. Wives- Catherine of Aragon, Anne Boleyn, Jane Seymour, Anne of Cleves, Katherine Howard, Katherine Parr. divorce allowed. Religion: Catholic then Church of England 2. Protestant Edward VI (1547-1553) **Religion: Protestant** against the Catholic Church. Mary I (1553-1558) **Religion:** Catholic Aragon.

Elizabeth I (1558-1603) Religion: Protestant (but Middle Way)

Part 4: Threats to the throne

Henry VIII: War with France & Scotland Edward VI: Rebellions by Catholics over changes to the Prayer Book. Kett's rebellion in protest against changes to land ownership. Mary I: Wyatt's Rebellion over Mary's plans to marry Philip of Spain. Elizabeth I: Revolt of the Northern Earls, Ridolfi plot,

Throckmorton plot, Babington plot & Attack by the Spanish Armada (1588).

Part 3 key religious beliefs.

Ruled by the Pope (Head of the Catholic Church). The pope (Papacy) was based in Rome. Belief in transubstantiation- during communion the bread and wine actually become the body and blood of

Churches were highly decorated with colourful vestments, stained glass windows, services in Latin. No

Set up following Martin Luther's proclamation of revolt

Henry VIII took England out of the Catholic church in 1534. Linked to his desire to divorce Catherine of

Monasteries were closed so Henry could sell their land to pay his debts. This stopped poor people from seeking help.

Part 5: Spanish Armada

Causes: English pirates attacking Spanish colonies in the New World. Elizabeth sending help to Spain's enemies in Holland. Religion: Catholic Spain versus Protestant England.

Reasons for Spanish defeat: Improved English ship

designs. Duke of Palma was late bringing Spanish army to Calais. Weather: storms drove Armada North where it was wrecked off coast of Ireland.



Part 2. Main religious changes

Under Henry VIII England was a Catholic country. This was until he wanted to divorce Catherine of Aragon and marry Anne Boleyn. When the Pope refused to grant a divorce, Henry took England out of the Roman Catholic Church and made himself head of a new **Church** of England.

Edward VI chose to continue the Reformation and make England even more **Protestant**. Churches were whitewashed, stained glass and coloured vestments vanished. The Bible & Prayer Book were now in English.

Mary I changed England back to **Catholic.** She re-introduced ideas like transubstantiation and the Latin Mass. Under the reign of "Bloody" Mary many Protestants who refused to change religion were branded as heretics and burned to death.



Elizabeth I chose and "Middle Way" and her Religious Settlement confirmed England as a Protestant country but with tolerance for Catholics. Elizabeth's Religious Settlement made her Supreme ruler of the Church of England.

Key words: Tier 2

Monarch, battle, invasion, economic, religious, government, taxes, describe, account, judgement, conclusion, hypothesis, colony, war, vestments

Key words:Tier 3

Tudor, Reformation, transubstantiation, divorce, excommunication, Protestant, Catholic, tyrant, monastery, Supreme Governor, empire, Armada, Chronology, Significance, interpretation, causation, evaluate, narrative, explain, analyse, continuity, change,







Year 7 ICT Knowledge Organiser – Computer systems

A Computer Is a programmable machine which takes in data, processes it and then outputs the result.

Input Device	ut Device Bring data from the physical world into the computer system.EG Mouse, touchscreen.			СРО			ntral Processing Unit is used to control and execute mmands within the computer.			
Output Device Bring data from the computer into the physical world. EG A monitor or speakers.			Hard drive		Storage which holds documents and programs when the computer is turned off.					
Storage Device		& files on. EG CD		Motherboard	Т	The main board which connects all components to each othe				
Hardware	Hardware Is the physical parts or components of a computer			RAM	F	Random Access Memory is volatile and holds open programs				
			ROM		Read only memory is non volatile and holds the computers boot up sequence					
· ·	Spreadsheet Excel or Google sheets is used		A single unit of st spreadsheet prog			Software	This is the set of instructions for the computer to run a particular task or boot up, for			
to create docum		Cell Reference	The specific location of a cell				example a word processor.			
contain calcula analyse d		RangeA cell reference w group of connect D2:F6)				Application Software	Software which is installed onto the computer to perform a specific task such as creating documents or spreadsheets			
FunctionFormulaAn expression use to perform a calculation		ed in a spreadsheet ulation		Operating System	Comes already installed on your computer and is used to control the workings of a					
=SUM(cell:cell)	=SUM(cell:cell) Sort Organises da		Organises data in	rganises data into order		System	computer.			
=AVERAGE(cell:cell)		Filter	Setting conditions so that only certain data is displayed			Utilities Software:	These carry out specific tasks which help the computer system run efficiently such as virus			
Nearch			Look through data to find results that meet certain criteria			checking and Winzip.				



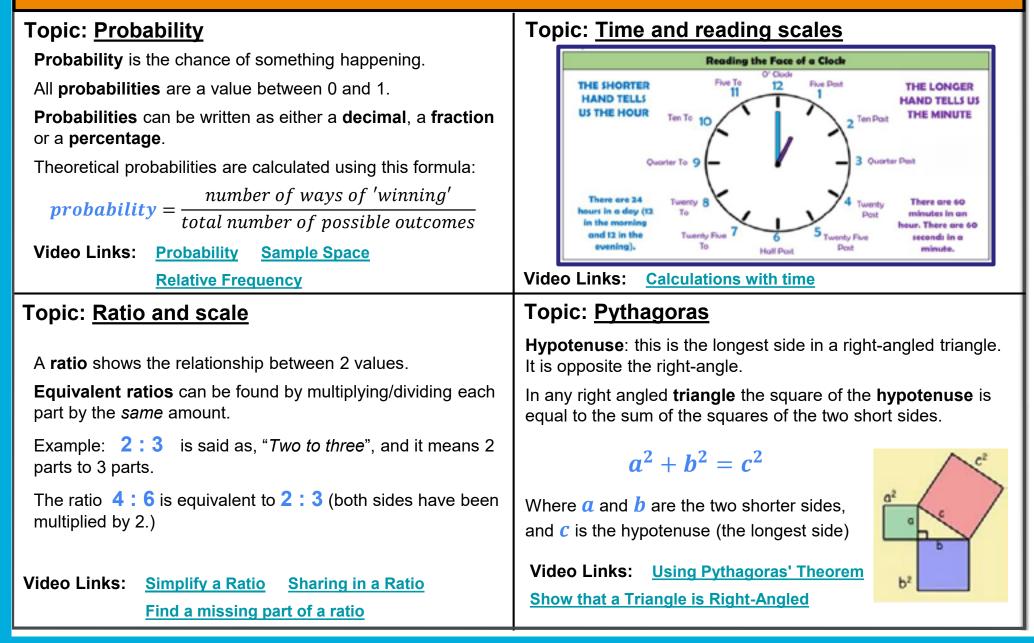
Mathematics Spring To	erm 1 Year 7
Topic: FractionsTo calculate a fraction of an amount divide by the bottom number (denominator) and multiply by the top (numerator).Add/subtract: rewrite using a common denominator, add or subtract the numerators, simplify if neededMultiplying: multiply the tops (numerators), multiply the bottoms (denominator), simplify if possibleDividing: Flip the second fraction and change the \div to a \times , then multiply the fractionsVideo Links: Fraction of an amountAdd/SubtractMultiplyDivide	Topic: Area and PerimeterThe perimeter is the total distance around the outside of a shape (measured in <i>mm</i> , <i>cm</i> , m, etc.) To calculate the perimeter, total all of the lengths of the sides of a shape.The area is the space inside a shape (in mm², cm², m², etc.)Area formulae: Rectangle or square = length × widthTriangle = $\frac{base \times height}{2}$ Trapezium = $\frac{(a+b) \times h}{2}$ Video Links: PerimeterArea of a RectangleTrapezium
Topic: IndicesIndex numbers (or powers) or show as small number next to a base number. It is a quick way of showing that a number is to be multiplied by itself.Rules of indices: When multiplying, alike base numbers together, ADD the powers.When dividing, alike base numbers together, SUBTRACT the powersVideo Links: Index Laws	Topic: Basic constructionsIn maths we sometimes need to draw accurate drawings of angles or shapes, these are called constructions. We use maths equipment to do this, such as a pencil, ruler, protractor and a pair of compasses.Bisect – to cut in half Perpendicular – at right-angles (90°) to one anotherVideo Links: Angle BisectorPerpendicular BisectorTriangles: SSSASASAS

Maths - Spring Term 2

Mathematics

Spring Term 2

Year 7



YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

Music - Classical Music



KNOWLEDGE ORGANISER – Year 7 – Introduction to Classical Music

	COVER WRITE CHECK Keywords	Instrument Families String Family	Brass instruments
Pulse	A steady beat.	🔪 🧄 👧 🟭	and the first horn
Orchestra	A large ensemble (group) of musicians which includes string, wind and percussion instruments.	Vish (ab) (ab) (b) (b) (b) (b)	Const Line Figul Ion Neural Sumper
Canon	The melody is played by lots of different instruments, but starting one after the other. A bit like a round e.g. Row, Row, Row Your Boat.	Xylophone Claves Claves Triangle Drum Cymbals Cymbals	The smaller the instrument, the higher in pitch it is. The bigger the instrument, the lower in pitch it is. However, the
Ensemble	A group of musicians	Piano	harp/xylophone/chimes have lots more strings/elements so can play both high
Major	Music that sounds happy/cheerful	- 秤 💆 🖾	pitched and low pitched notes.
Minor	Music that sounds sad/serious	Woodwind Family	Tick when Recommended Listening - make a list of all the
Forte (f)	Loud		completeinstruments you hear.The Imperial March (Darth Vader's Theme)
Piano (p)	Quiet	Autor A	from Star Wars. https://www.youtube.com/watch?v=-bzWSJG93P8
Note	A single pitch		Ride of the Valkyries by Richard Wagner https://www.youtube.com/watch?v=GGU1P6IBW6Q
Chord	Two or more notes played at the same time.	Ciaritar Otar Bassion	Titanium/Pavane Cover by The Piano Guys https://www.youtube.com/watch?v=fz4MzJTeL0c
м	A D	T S	H I R T

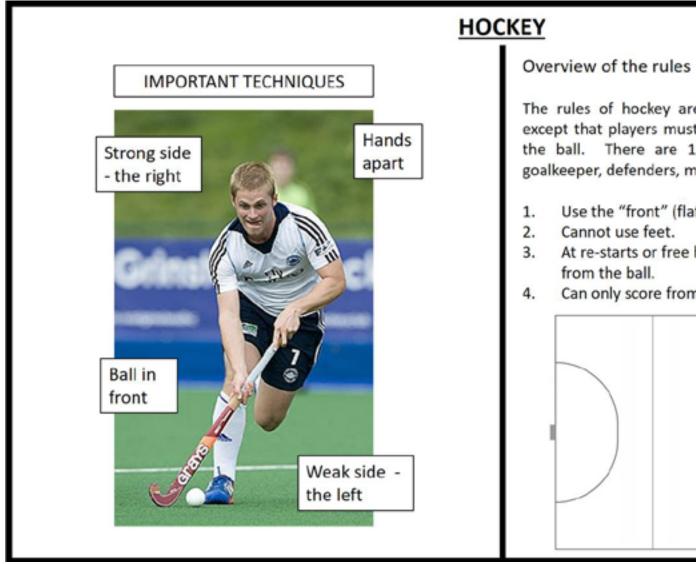
IVI		U		3			ĸ	•
melody	articulation	dynamics	texture	structure	harmony	instruments	rhythm	tempo
the tune	how notes are played	loud / soft and any other volume changes	layers of sound and how they fit together	sections of music and how they are organised	chords used	types of instruments heard	the pattern of notes	the speed

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

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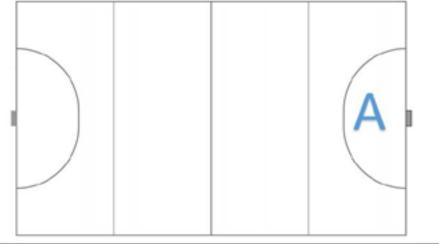
PE - Sport - Hockey





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.

- Use the "front" (flat) side of the stick.
- At re-starts or free hits, the defending team must stand 5m
- 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:

1. 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.

3. 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.

1. 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

1. Although the foul rule is described as a defensive rule, it applies exactly the same to all players on the court.

2. 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



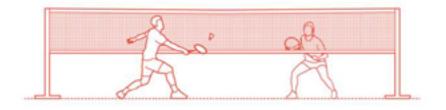
BADMINTON

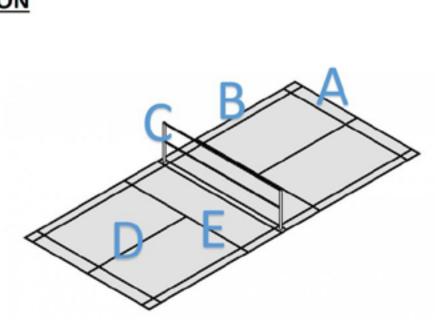
Overview of the rules

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

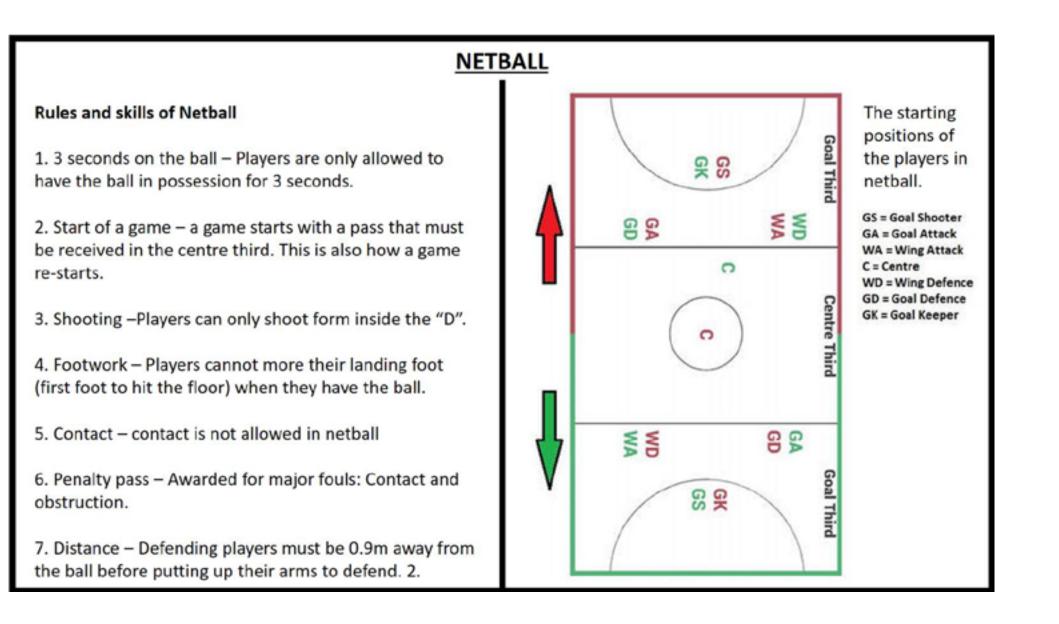
- 1. You must serve underarm
- 2. A serve must reach the front service line
- 3. If the shuttle lands on the edge line of the court, this is IN
- If you win a rally, you get a point added to your score and you serve next
- 5. You can only hit the shuttle once in a row
- 6. In a full game, the game is 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
 - : The net
- D: Centre line: the middle of the court
- E: Service line: where a rally is started



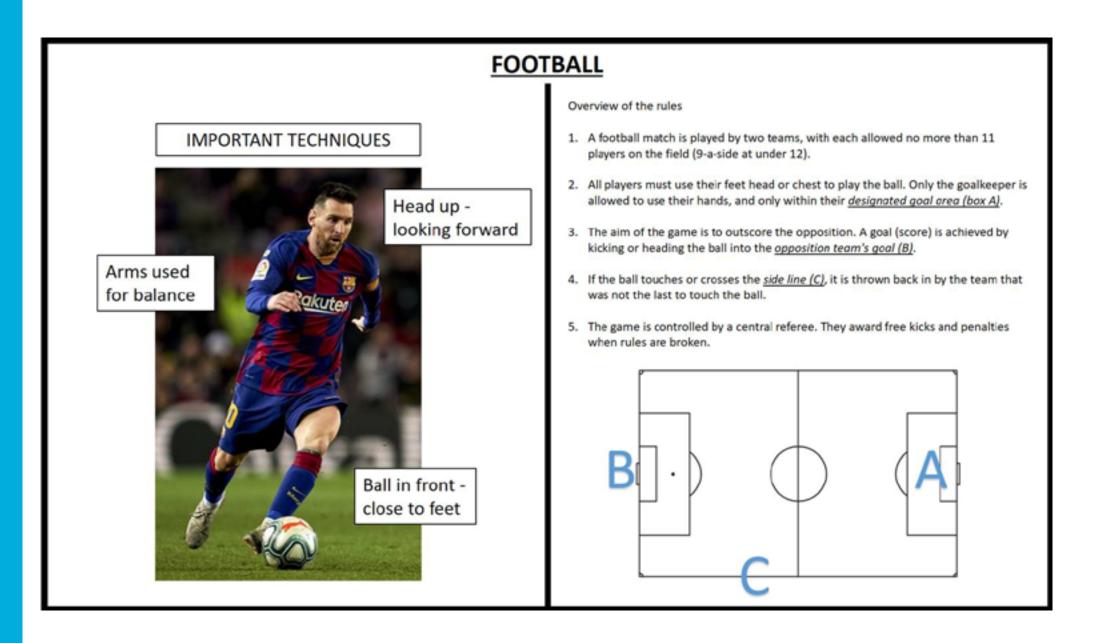




RUGBY Overview of the general rules Rugby has may variations but the aim of the game is very simple - use the ball to score more points than the other team. 1. Scoring a "try". A try is scored when the ball is placed down on the playing surface with pressure in the in goal area by the attacking team. A - Try line and ingoal area. 2. Moving the ball. To move the ball toward the line you can run with it, B - Side line kick it and pass it. However, passing or knocking the ball forwards (unless C - Half way line D - Dead ball line, kicked) is not allowed. the end of the pitch. 3. Kicking . Kicking is allowed but must kicked from the hands and not 1. Tackling rules: while the ball is on the floor. 2. The tackler must grasp/ wrap the ball carrier below the armpits, on 4. Offside. Players are not allowed to receive the ball if they were in front the shirt, shorts or around the legs. The grasp must be simultaneous of the ball when it was passed or kicked. with, or prior to, shoulder contact. 5. Penalties. A penalty can be awarded by the referee if any player breaks 3. The tackler must not shoulder barge their opponent. 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 4. When a tackle is called the player can pass the ball to team mate or game. present the ball on the ground for a team mate. 6. Starts and re-starts. If the ball goes out of play the ball is passed back in 5. The ball is not allowed to be contested by the opposition. by the opposition. The ball is kicked from the half way line forward at the TOUCH VERSION - use two hands to touch the player at the waist. 6. start of the match and after each try. They then have 2-3 seconds to pass or present the ball.

PE - Sport - Football





PE - Theory - Part 1

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	
Неа	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	

Cranium Clavicle Sternum Humerus Ribs Radius Pelvis Ulna f_{1} 111 Femur -Patella Tibia Fibula Structure of the skeletal system Scapula Vertebral column 橣 Tarsals Carpals Metatarsals Metacarpals Phalanges Phalanges

Structure of the skeletal system

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

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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 on the Body (1)			
	Immediate Effects of Training	Body System	Structure of the muscular system
1	Increase temperature of synovial fluid	The Skeletal System	Pectorals
2	Increased flexibility	The skeletal system	
3	Rise in muscle temperature		Biceps Deltoid
4	Increased blood flow to muscles	The Muscular System	Abdominals Triceps
5	Increased flexibility	ine muscular system	External Latissimus Dorsi
6	Muscle soreness (DOMS)		Obliques
7	Increased heart rate, cardiac output		Hip Flexor Gluteus Maximus
8	Blood diverted to muscles from digestion and other systems (vascular shunting)	The Cardiovascular System	Quadriceps Hamstring
9	Increase in blood pressure		
10	Increased rate of breathing		Tibialis Anterior
11	Increased rate of gaseous exchange	The Respiratory System	
12	Increased depth of breathing		

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

PSHE - Nuisance in the Community & Cycling Safety

HIWCS

Harrow Way PSHE Department – Year 7 – Nuisance in the Community and Cycling Safety

Define:

Nuisance A person or thing causing inconvenience or annoyance.

Define:

Anti-Social Behaviour Order

Given out by a court, to stop a person from behaving in certain ways or doing certain things. It's not meant to be a punishment - the idea is to prevent further distress and alarm caused by **antisocial behaviour**.

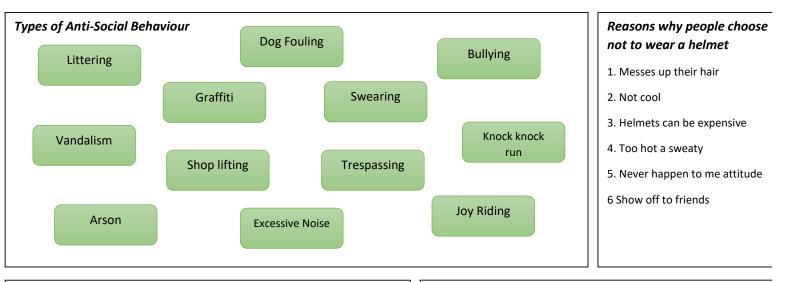
Define:

Criminal Damage

A person who, without lawful excuse, destroys or damages any property belonging to another, intending to destroy or damage any such property, or being reckless as to whether any such property would be destroyed or damaged

Define: Concussion

A mild traumatic brain injury (TBI) can occur after an impact to the head or after whiplash type injury that causes your head and brain to shake quickly back and forth.



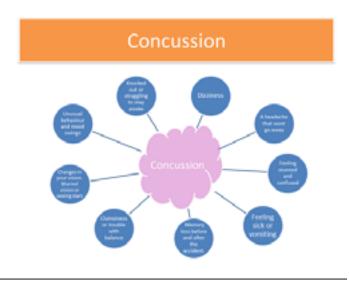
Effects of Anti-Social Behaviour

Victims of anti-social behaviour can become frightened of leaving their home and even feel unsafe when in their homes. Not being able to simply walk to the shops and back or walk to their car to go out has a serious impact on the quality of life of individuals.

Anti-social behaviour also has an impact on communities as a whole as it can often lead to the degradation and neglect of areas. The standard of living in an area is negatively affected which destroys the spirit and pride of communities and makes people feel neglected and powerless.

People begin to move from the area and businesses close down. The likelihood of more anti-social behaviour increases and an environment is created where more serious crime can take hold.

Consequences of not wearing a cycle helmet



PSHE - Keeping Safe

Harrow Way PSHE Department – Year 7 – Keeping Safe



Alcohol While some drinks have more alcohol than others, the type of alcohol in all alcoholic drinks is the same -it's a type of alcohol called ethanol. Alcohol is a colourless, odourless

and inflammable

Define:

fluid.

Define:

Drug A medicine or other substance which has a physiological effect when ingested or otherwise introduced into the body.

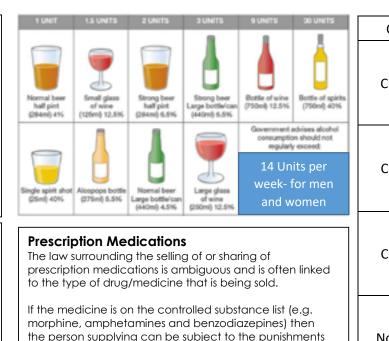
Define:

E-Safety Strategies and

systems to help people stay safe

Define:

Smoking The action or habit of inhaling and exhaling the smoke of tobacco or a drug. Usually through cigarettes or cigars.



It is extremely dangerous to share prescription drugs because of the possible side effects and impacts of other medications that are being taken.

Effects Of Nicotine Nicotine is both a sedative and a stimulant.

which are for that class of druas.

When a body is exposed to nicotine, the individual experiences a "kick." This is partly caused by nicotine stimulating the adrenal alands, which results in the

release of adrenaline. This surge of adrenaline stimulates the body. There is an immediate release of glucose, as well as an increase in heart rate, breathing activity, and blood pressure. Indirectly, nicotine causes the release of dopamine in the pleasure and motivation areas of the brain.

Class	Type of drug
Class A	Heroine, Crack Cocaine, Meth, LSD, Ecstasy,
Class B	Cannabis, Speed, Ketamine
Class C	Anabolic Steroids, Khat,
No Class	Alcohol, Tobacco, Cough medicine, Paracetamol, Ibuprofen, Solvents
	from Smoking damage every part of the body Chronic Diseases Struke Bindress Gum infection
Leskenia • Stensch • Kidny • Pancress • Calan • Bladder • Carula •	Aortic repture Heart disease Preamails Chronic lang disease L asthma Reduced firthity Hip fracture

Top 10 Rules for staying safe online

1. Don't post any personal information online –like your address, email address or mobile number.

2. Think carefully before posting pictures or videos of yourself. Once you've puta picture of yourself online most people can see it and may be able to download it, it's not just yours anymore.

3. Keep your privacy settings as high as possible.

4. Never give out your passwords.

5. Don't befriend people you don't know.

6. Don't meet up with people you've met online. Speak to your parent or carer about people suggesting you do.

7.Remember that not everyone online is who they say they are

8. Think carefully about what you say before you post something online.

9. Respect other people's views, even if you don't agree with someone else's views doesn't mean you need to be rude.

10. If you see something online that makes you feel uncomfortable, unsafe or worried: leave the website, turn off your computer if you want to and tell a trusted

RE - Part 1



Year 7 Knowledge Organizer Spring Term

The Parable of the Good Samaritan

- 1. Man walking along mugged.
- 2. Priest and a Levite walked past him.
- 3. Samaritan helped him.
- Samaritan belonged to a tribe fighting with the tribe of the injured man.
 JC told this parable to 'love thy neighbour'

Religions which are monotheistic; Christianity, Islam and Judaism. They all believe in the SAME God, Allah, G-d

gipe What is it?

Sacred; something to do with God/gods therefore should be treated with respect.

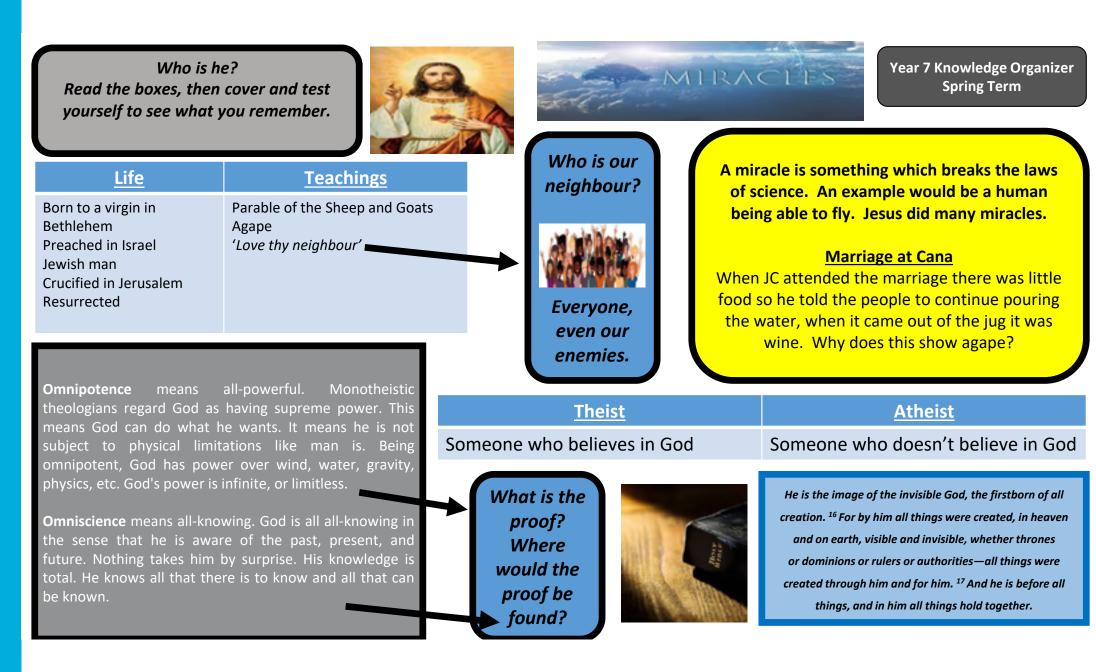
Story of Exodus sacred to Jews because...
1. G-d rescued Israelites from slavery by the Egyptians.

- 2. G-d provided a homeland for them.
- 3. G-d parted the Red Sea so they could reach their homeland. Jews celebrate this time at Passover with the Seder plate and remember all that G-d did for them.

- Key Words
- <u>Monotheistic;</u> belief in 1 God
- <u>Attributes of God</u>
- <u>Omnipotent; all powerful</u>
- <u>Omnipresent</u>; everywhere
 - Omniscient; all seeing
 - <u>Omnibenevolent;</u> all loving
 - <u>Transcendent;</u> _beyond human understanding/ comprehension
 - <u>Immanent</u>; within everyone and everything in the world.
- For Christianity, Islam and Judaism God is all these.

RE - Part 2





RE - Part 3



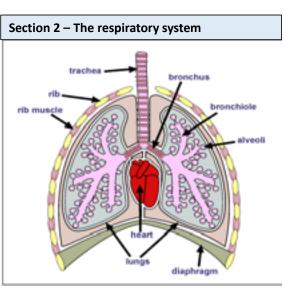
Year 7 Knowledge Organizer The 16th century reformation is the most Spring Term important event in British history and affects us even today. There was one church (Catholic (nurch) and everybody in Europe belonged to it. Henry VIII wanted a divorce from his first wife 1. Catholic Protestant so he could marry Anne Boleyn. The Catholic Church doesn't allow divorce. **Countries Countries** Who was Martin In Germany Martin Luther was speaking out Luther? against the Catholic Church as it made money selling 'passes' for people to get into heaven. Who was Henry Luther read the Bible and discovered there were 1. VIII? practises which the Catholic Church used which had no scriptural basis. What role did they play in the Henry decided to make himself the Head of the Church in England rather than the Pope thereby reformation? Search for a word 'splitting' from Europe and the Catholic Church. reformation /ittle/metslevin/ Some countries formed their own church (The 1. Protestant Church) because they protested the action or process of reforming an institution or practice he reformation of the Senati against the corruption of the Catholic Church. 2. a 16th-century mevement for the reform of abuses in the Roman Church ending in the establishment of the Reformed and Protestant Churches

Science - Biology - Breathing and Respiration

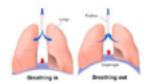


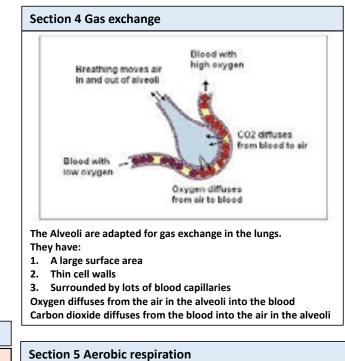
Systems – Breathing and respiration

Sec	ection 1 Definitions			
1	Alveoli	Tiny air sacs in the lungs where gas is exchanged during breathing		
2	Bronchi	Tubes (2) that take air from the trachea to each lungs		
3	Bronchioles	Small branches from the bronchi that distribute air to the air sacs (alveoli)		
4	Diaphragm	Sheet of muscle below the lungs that contracts and relaxes to allow the lungs to expand or decrease in volume		
5	Lungs	Organ in thorax(chest) where gas exchange happens		
6	Trachea	Windpipe – takes air from the mouth/nose to the lungs		
7	Respiration	Process in living things in which oxygen is used to release energy from food (glucose = sugar) Glucose + oxygen → carbon dioxide + water + energy		
8	Mitochondria	Organelles in the cytoplasm of all cells where aerobic respiration takes place		
9	Aerobic respiration	Respiration that requires oxygen. Occurs in all living organisms		
10	Anaerobic respiration	Respiration without oxygen (produces less energy) Glucose→ lactic acid		
11	Fermentation	Anaerobic respiration in plants and fungi. Glucose → ethanol + carbon dioxide		
12	Circulatory system	Consists of the heart, blood vessels and blood. It function is to transport substances eg oxygen / food around the body		



Section 3 Breathing				
How does each	Inhaling	Exhaling (expiration)		
listed feature	(inspiration)	breathing out		
change or act?	Breathing in			
The diaphragm	Contracts / moves	Relaxes /moves up		
	down			
Intercostal muscles	Contract – move the	Relax – ribs move		
(rib muscle)	ribs up and out	down and in		
Volume of chest	increase	decreases		
cavity				
Pressure in chest	decreases – air	increases – pushes air		
cavity	moves in	out		





Aerobic Respiration

Respiration is a series of reactions that takes place in the cells of animals and plants.

Energy is released in the reaction. The mitochondria, found in the cell cytoplasm, is where respiration happens.

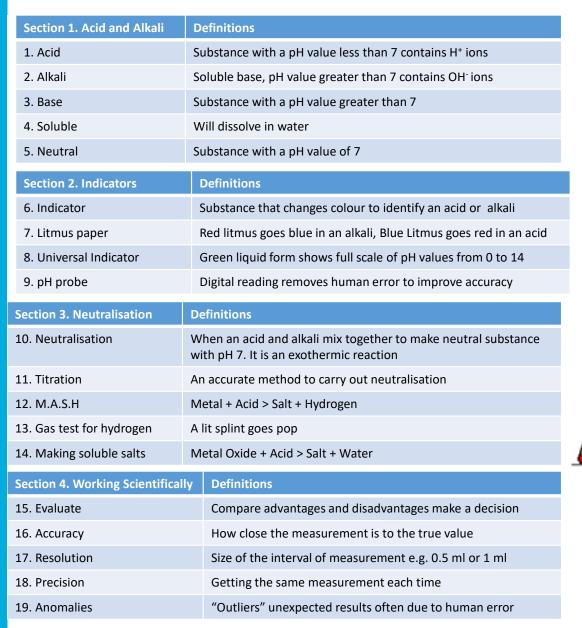
Glucose + Oxygen → Carbon Dioxide + Water (+energy)

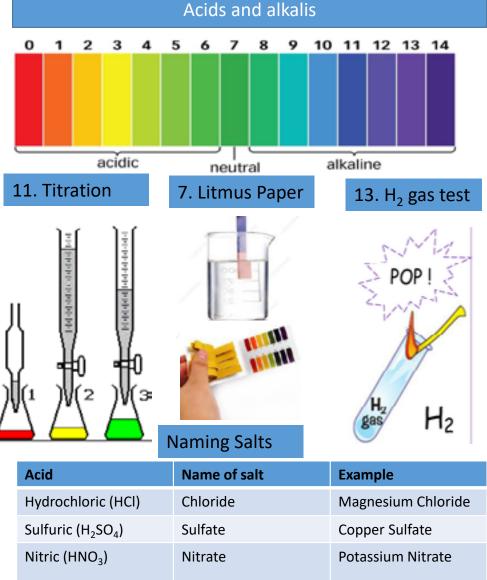
$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O_2$$

"Energy" is in brackets because it is not a substance. This type of respiration, where oxygen is used, is known as aerobic respiration. Oxygen (from breathing) is carried from the lungs to all the cells of the body in the blood. The waste products (carbon dioxide and water) are taken away from the cells by the blood and breathed out from the lungs.

Science - Chemistry - Acids & Alkalis



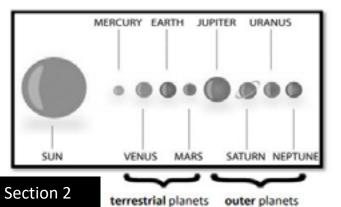




Science - Physics - Space

<u>Space</u>

Section 1	The Night sky
Galaxy	A galaxy is a collection of millions or billions stars, gas and dust; our galaxy is the Milky Way.
Stars	A star is a very large ball of bright glowing hot matter in space. That matter is called plasma. Stars are held together by gravity.
Planets	Planets are round and made up of rocks and gas large enough to hold itself together by gravity. They orbit a star.
Meteors	Small balls of dust or rock that burn up in the earth's atmosphere producing streaks of light. Meteorites are their remains when/if they reach earth.
Comets	Balls of ice and rock with a fuzzy haze.

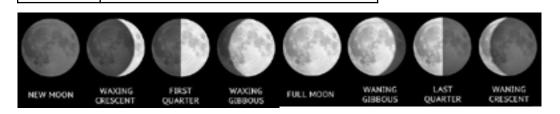


The Solar System

There are eight planets in our solar system, which orbit the Sun in an ellipse shape.

The asteroid belt is between Mars and Jupiter. It contains thousands of pieces of rock.

Section 4	The Moon	
Phases of the moon	The moon looks different each night as it is orbiting the earth. The moon only reflects the sun's light it doesn't produce its own light	
Lunar eclipse	The light from the sun can be blocked when the earth comes between the sun and the moon.	
Solar eclipse	When the moon comes between the sun and the earth, sunlight cannot reach parts of the earth's surface.	



Section 3	Section 3 The Earth and Seasons				
Axis	The earth spins on its axis, tilted at 23 degrees, it takes 24 hours to rotate fully (one day)				
Day and night	The spin of the axis gives us day and night, day when the earth faces the sun, night when you face away.				
Year	The earth orbits around the sun once every 365 days, a year.				
Seasons	The tilt of the axis gives us seasons. Summer is when a hemisphere tilts towards the sun and winter when it tilts away. Its hotter in the summer as the rays are more concentrated on the earth compared to the winter				



YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM



Spanish - Mi Insti



	Snanish							
	Spanish Y7- Mi Insti		¿Cuál es tu día	What is your	Adjetivos	Adjectives	Opiniones	Opinions
			favorito?	favourite day?	Aburrido	boring	Me encanta	l love
	¿Qué estudias?	What do you study?	Mi día favorito	M favourite day	Difícil	Difficult	Me gusta	I really like
	Estudio	l study	es	is	Divertido/a	Fun	mucho	
	Las ciencias	Science	Los lunes/martes	On Mondays/ Tuesdays	Fácil	Easy	Me gusta	l like
	El dibujo	Art	Estudio	, I study	Importante	Important	No me gusta	I don't like
	Le educación física	PE	¿Por qué?	Why?	Interesante	Interesting	No me gusta nada	I don't like it at all
	El español	Spanish	Porque	Because	Práctico/a	Practical	Odio	I hate
	El francés	French	Por la mañana	In the morning	útil	Useful	Detesto	l detest
			Por la tarde	In the afternoon	Feo/a	Ugly	Prefiero	l prefer
	La geografía	Geography	Estudiamos	We study	Bonito/a	Pretty	Me chifla	l am crazy
	La historia	History	No estudio	I don't study	Grande	Big		about
	La informática	ICT			Pequeño	small		
	El inglés	English	Verbos Importan		¿Que nav en tu insti?		What is in your school?	
	Las matemáticas	Maths	Importantes	Verbs	En mi insti	In my schol	una clase de	An ICT
	La música	Music	Tengo	I have	hay	there is	informática	classroom
	La religión	RE	Estudio	l study	Un campo	A football	Un salón de	A drama studio
	El teatro	Drama	Estudiamos	We study	de fútbol	pitch	actos	
			Es	He/she/it is	Un comedor	A canteen	Una biblioteca	A library
	La tecnología	Technology	Son	They are	Un gimnasio	A gym	Un laboratorio	A lab
			Нау	There is/are	Un patio	A playground	Una oficina	An office

YEAR 7 KNOWLEDGE ORGANISER - SPRING TERM

There is/are not

A pool

El aseo

Una piscina

No hay

Subject Contents

The toilet

Spanish - Mi Familia y Mis Amigos - Part 1



Spanish Y7- Mi familia y mis amigos (1)		¿De qué color tienes	What color are your	¿Cómo tienes el	What's your hair	¿Cómo es?	What is he/she like?
¿Cuántas personas hay	How many people are	los ojos?	eyes?	pelo?	like?	Es	He/she is
en tu familia?	there in your family?	Tengo los	I have eyes	Tengo el	I have hair	No es	He/she is not
En mi familia hay	In my family there is	ojos	Dhue	pelo	Drewe	Alto/a	Tall
Personas	People	Azules	Blue	Castaño	Brown	Bajo/a	Short
Mis padres	My parents	Grises	Grey	Negro	Black	Delgado/a	Thin
Mi madre	My mum	Marrones	Brown	Rubio	Blonde	Gordo/a	Fat
		Verdes	Green	Azul	Blue	Guapo/a	Good looking
Mi padre	My dad	Llevo gafas	I wear glasses	Liso	Straight	Inteligente	Intelligent
Mi abuelo	My grandad	Los	Numbers	Rizado	Curly	Joven	Young
Mi abuela	My grandmother	números	20-100	Soy	l am a		He/she has
Mi bisabuelo/a	My great	20-100		pelorrojo/a	redhead	Tiene pecas	freckles
	grandmother/grandfather	Veinte	20	Soy calvo	I am bald	Tiene barba	He has a beard
Mi tío	My uncle	Treinta	30				
Mi tía	My aunt	Cuarenta	40	Palabras mu	y frecuentes	High frequ	ency words
Mis primos	My cousins	Cincuenta	50	Además	Also	Mi/mis	My
Mi madre se llama	My mum is called	Sesenta	60	Bastante	Quite	Tu/tus	Your
Mi padre se llama	My dad is called	Setenta	70	Porque	Because	Su/sus	His/hers
Mis hermanos se llaman	My siblings are called	Ochenta	80	Muy	Very	tiene	He/she has
Su hermano	His/her brother	Noventa	90	¿Quién?	Who?	Tengo	I have
	· ·	cien	100	Un poco	A little	Es	He/she is
Sus hermanos	His/her siblings						



Spanish Y7- Mi familia y mis amigos (2)

¿Cómo es tu casa o tu piso?	What is your house or flat like?		
Vivo en	I live in		
Una casa	A house		
Un piso	A flat		
Antiguo/a	Old		
Moderno/a	Modern		
Bonito/a	Pretty		
Feo/a	Ugly		
Cómodo/a	Comfortable		
Incómodo/a	Uncomfortable		
Grande	Big		
Pequeño	Small		
Guay	Cool		
Interesante	Interesting		
Aburrido/a	Boring		
Divertido/a	Fun		

¿Dónde está?	Where is it?	¿Dónde está?	Where is it?
Está en	It is in	Una granja	A farm
La costa	The coast	El norte	The north
El campo	The countryside	El sur	The south
Una ciudad	A city	El este	The east
Un pueblo	A town	El oeste	The west
La montaña	The mountains	El desierto	The desert
El centro	The centre	Las afueras	The outskirts

Estrategia 4

Mnemonics

One way of remembering new words is to invent a mnemonic: a rhyme or saying that sticks easily in the mind. Here's an example from the word list above, but it's best to make up your own – you'll find them easier to remember/harder to forget.

Ben
O ffers
Nice
Invitation
To

O thers

You can't learn every word like this - it would take ages! But it's a great way of learning those words that just don't seem to stick.



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