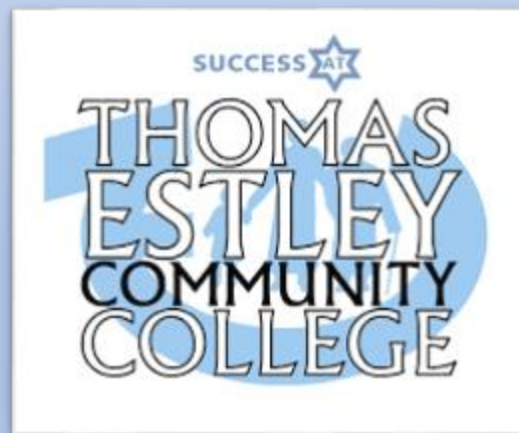


# Thomas Estley Community College

## Year 7 Summer Term

### Knowledge Organiser



## What are Knowledge Organisers?

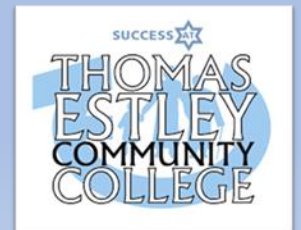
A knowledge organiser is an easy way that each subject can summarise the most important information. Each subject section will include key terms, short explanations, glossary words, diagrams etc making it clear to the student as to what is essential to learn. Each grid has an overall theme and these vary according to the subject being taught.

It will be the students responsibility to keep the knowledge organisers safe and refer to them over the whole academic year.

## How will these be used at Thomas Estley?

At Key stage 3, you will be given a knowledge organiser each term. You need to keep these safe in your learning packs that you were provided with at the start of the academic year.

Your subject teachers will use these in a variety of ways, for both class work, remote learning opportunities and homework. They will be used to help with revision for class quizzes and retrieval practice activities. They will also be used for flip learning activities, where subject teachers will ask you to learn some information and then go in to it in more detail in class.



# Revision Tips and Tricks!

## Record It

Record yourself on your phone or tablet reading out the information. These can be listened to as many times as you want!



## Teach it!

Teach someone your key facts and then get them to test you, or even test them!



Flash Cards



## Flash Cards

Write the key word or date on one side and the explanation on the other. Test your memory by asking someone to quiz you on either side.

## Hide and Seek

Read through your knowledge organiser, put it down and try and write out as much as you can remember. Then keep adding to it until its full!



## Back to front

Write down the answers and then write out what the questions the teacher may ask to get those answers.

BACK  
TO  
THE  
FRONT

## Post its

Using a pack of post-it notes, write out as many of the keywords or dates as you can remember in only 1 minute!

PRACTICE  
MAKES  
PERFECT

## Practice!

Some find they remember by simply writing the facts over and over again.

## Read Aloud

Simply speak the facts and dates out loud as you're reading the Knowledge Organiser. Even try to act out some of the facts – it really helps you remember!



## Sketch it

Draw pictures to represent each of the facts or dates. It could be a simple drawing or something that reminds you of the answer.

# ¿Tienes mascotas?

(Do you have pets?)

<b>Tengo</b> <i>I have</i>	un caballo	<i>A horse</i>		pequeño/a	<i>small</i>
	un conejo	<i>A rabbit</i>		grande	<i>big</i>
<b>No tengo</b> <i>I don't have</i>	un gato	<i>A cat</i>	<b>es</b> <i>It is</i>	amarillo/a	<i>yellow</i>
	un hámster	<i>A hamster</i>		azul	<i>blue</i>
<b>Tiene</b> <i>He/she has</i>	un loro	<i>A parrot</i>		blanco/a	<i>white</i>
	un pájaro	<i>A bird</i>		naranja	<i>orange</i>
	un perro	<i>A dog</i>		rojo/a	<i>red</i>
	un pez	<i>A fish</i>		verde	<i>green</i>
<b>Me gustaría tener</b> <i>I would like to have</i>	un ratón	<i>A mouse</i>	<b>sería</b> <i>It would be</i>	aburrido/a	<i>boring</i>
	una araña	<i>A spider</i>		bonito/a	<i>pretty</i>
<b>No me gustaría tener</b> <i>I wouldn't like to have</i>	una cobaya	<i>A guinea pig</i>		divertido/a	<i>fun</i>
	una rata	<i>A rat</i>		feo/a	<i>ugly</i>
<b>Antes tenía</b> <i>Before I had...</i>	una serpiente	<i>A snake</i>		gracioso/a	<i>funny</i>
	una tortuga	<i>A tortoise</i>		ruidoso/a	<i>noisy</i>
			<b>era</b> <i>It was</i>		



### Chemical reactions

- A **chemical** reaction is a change in which atoms are rearranged to make new substances
- A **reversible** reaction is one where the products can react to get back the substances which you started with, most chemical reactions are not reversible
- You can look for signs that a chemical reaction has taken place such as flames, smells, heat change, a loud bang or gentle fizz

### Acids and alkalis

- Acids** and **alkalis** are the chemical opposites of one another
- Both acids and alkalis can be **corrosive** and **irritants**

To see whether a substance is an acid or an alkali, we can use an **indicator**. Indicators show how acidic or how alkaline a solution is by showing its position on the **pH scale**, one example of this is **universal indicator**

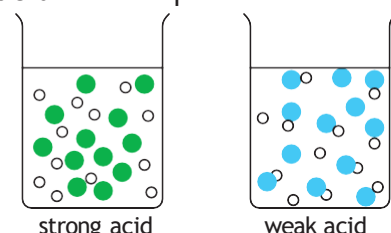
- If the solution has a pH value of 1–6 it is **acidic**
- If the solution has a pH value of 8–14 it is **alkaline**
- If the solution has a pH value of 7 it is known as **neutral**

Another example of an indicator is red & blue **litmus paper**

Strong acid			Weak acid			Neutral	Weak alkali			Strong alkali			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
sulfuric acid, nitric acid, hydrochloric acid	lemon juice	cola drinks	vinegar	saliva	tea	water blood (7.4)	toothpaste	milk of magnesia			drain cleaner	sodium hydroxide	potassium hydroxide

### Acid strength

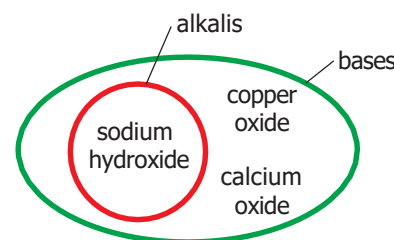
- The strength of an acid depends on how much of the acid has broken apart when it has dissolved in water
- Hydrogen chloride dissolves in water to form hydrochloric acid, this is a **strong acid** as all of the particles split up
- A **weak acid** will have particles that do not all split up



- The **concentration** of the acid is the amount of acid which has dissolved in 1 litre of water
- The more concentrated the acid, the lower the pH

### Neutralisation

- Neutralisation** reactions are any reaction in which acids react with a **base** to cancel out the effect of the acid
- These reactions form a neutral solution with a pH of seven
- A **base** is any substance which neutralises an acid
- An alkali is a base which has been dissolved in water



### Salts

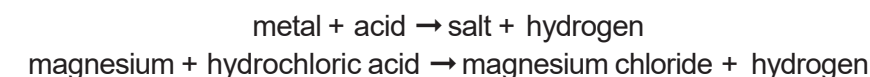
**Salts** are substances which are formed when an acid reacts with a metal or metal compound

Different acids form different types of salts:

- Hydrochloric acids form chloride
- Sulphuric acids form sulphates
- Nitric acids form nitrates

### Metal reactions and gas tests

When a metal reacts with an acid it will produce a salt and hydrogen gas, the fizzing that you see is the hydrogen gas being given off

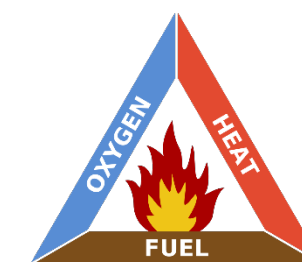


As most gases are colourless and odourless, it is sometimes necessary to test a gas to see what it is. This helps you to understand what has happened during a reaction.

- To test to see if the gas is hydrogen: put a lit spill in the end of the test tube containing the gas. If there is a squeaky pop sound then the gas is hydrogen.
- The sound is caused by the hydrogen igniting and creating a miniature explosion.
- To test to see if the gas is oxygen: Blow out a lit spill so that the end glows. Put the glowing spill into the test tube containing the gas. If the spill reignites then the gas is oxygen
- To test to see if the gas is carbon dioxide: Put a lit spill into the test tube containing the gas. If the spill is extinguished then the gas **could** be carbon dioxide.
- To confirm the gas should be mixed with lime water (*not from the fruit!*). If the lime water turns a cloudy white then the gas is carbon dioxide

### Combustion

- When substances burn in oxygen a chemical reaction called combustion takes place.



- Combustion can only take place when there is a fuel to burn, heat to start the reaction and plenty of oxygen. The product of the reaction is an oxide.
- carbon + oxygen → carbon dioxide
- copper + oxygen → copper oxide
- iron + oxygen → iron oxide
- magnesium + oxygen → magnesium oxide



#### Key terms

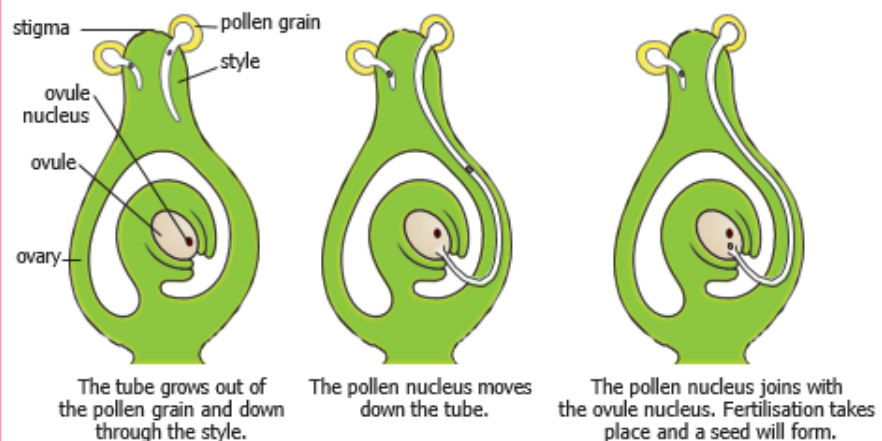
Make sure you can write definitions for these key terms.

acid    acidic    alkali    alkaline    base    chemical    chemical reaction    concentration    corrosive    displacement    hydroxide    indicator    irritant    neutral    concentrated  
 neutralisation    oxide    oxidation    pH scale    reversible    reactivity    salt    strong acid    universal indicator    weak acid    combustion    lime water

## Pollination and fertilisation

**Pollination** is the **fertilisation** of the ovule, the point at which the pollen is transferred to the ovule from the anther to the stigma, there are two types of pollination

- Cross pollination is between two different types of plant
- Self pollination happens within the same plant



**Germination** is the process in which the **seed** begins to grow, for this to occur the seed needs:

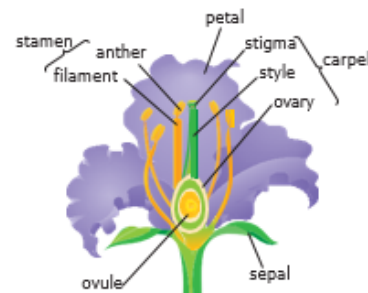
- Water to allow the seed to swell and grow and for the embryo to start growing
- Oxygen for that the cell can start respiring to release energy for germination
- Warmth to allow the chemical reactions to start to occur within the seed

## Parts of a flower

### Stamen

Male part of the flower

- The **anther** produces **pollen**
- The **filament** holds up the anther



### Carpel

Female part of the flower

- The **stigma** is sticky to catch grains of pollen
- The **style** holds up the stigma
- The **ovary** contains **ovules**

## Adaptations

- **Adaptations** are characteristics which organisms have developed to best survive in their surroundings
- Organisms with the best suited adaptations can breed and pass these on
- Those who are not best adapted will die out and not be able to pass on their genes

B2

Reproduction

Knowledge organiser – page 2

**Activate**  
Question • Progress • Succeed

### Key terms

Make sure you can write definitions for these key terms.

Adaptation Adolescence Amniotic sac Anther Carpel Cervix Cilia Egg cell Embryo Environmental variation Fertilisation Fetus Gamete Germination Gestation Implantation Inherited variation Menstrual cycle Ovary Ovule Oviduct Ovulation Penis Petal Period Placenta Pollen Pollination Puberty Reproductive system Scrotum Semen Seed Sepal Sex hormones Species Sperm cell Sperm duct Stamen Style Testicles Umbilical cord Urethra Uterus Vagina Variation

## Variation

- The differences in characteristics of living things is known as **variation**
- There is a large amount of variation between different **species**, but within species many more characteristics are shared
- Even though two organisms may look the same, they will always have variation between them

### Inherited variation

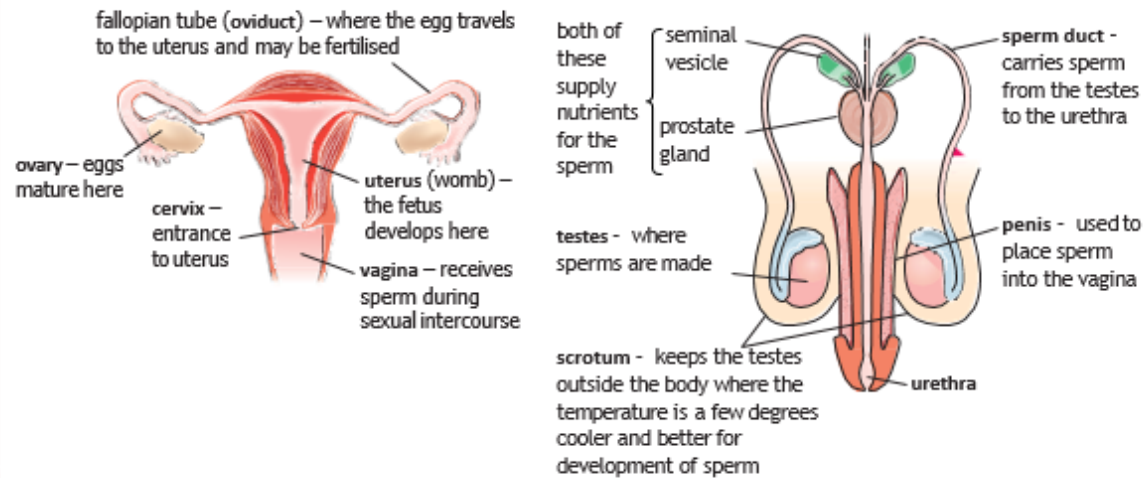
- Is anything that comes directly from your parents, anything that you inherit
- Examples can include lobe less or lobed ear lobes and eye colour

### Environmental variation

- Is any type of variation that is caused by your surroundings
- Factors that can cause environmental variation include diet, education and lifestyle

- Environmental factors can also impact inherited factors, for example a poor diet can affect height or your exposure to the sun can affect skin tone
- Characteristics which are inherited and not affected by environmental variation include natural eye colour, blood group and genetic diseases

## Reproductive systems

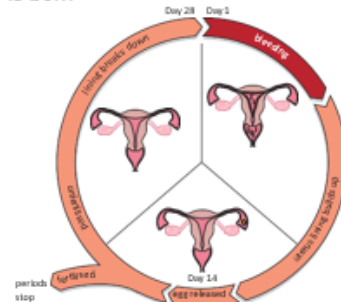


## Adolescence

- Adolescence** is the process in which a child changes into an adult, it involves both physical and emotional changes
- The physical changes alone in this time are known as **puberty**, these are caused by **sex hormones**

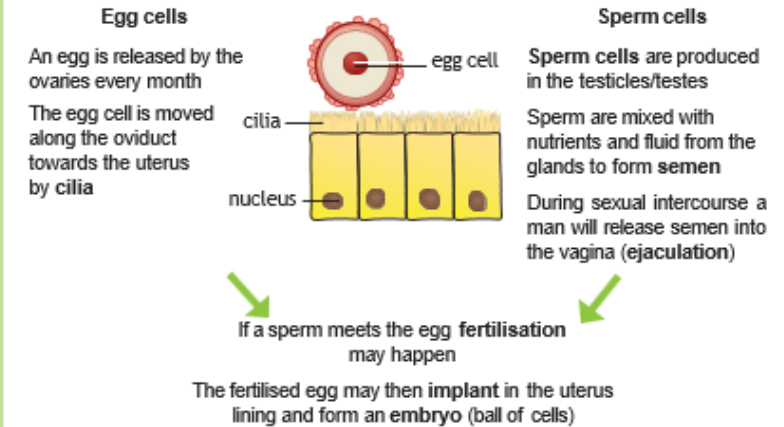
## The menstrual cycle

- The **menstrual cycle** is the process in which an egg is released from an ovary and leaves through the vagina
- Day 1: blood from the uterus lining leaves through the vagina, which is known as a **period**
- Day 5: the bleeding stops and the uterus lining starts to re-grow
- Day 14: an egg is released from one of the ovaries during **ovulation**
- If the egg is **fertilised** then the menstrual cycle stops until the baby is born



## Fertilisation, implantation and gestation

- Egg cells and sperm cells are also called **gametes**, and each contains half the genetic information needed to form a complete organism.



- During **gestation** the developing **fetus** needs nutrients from the mother, these are passed through the **placenta** which is connected to the fetus by the **umbilical cord**
  - Nutrients are passed from the mother to the baby and waste products are passed back from the baby to the mother
  - The baby is protected from bumps to the mother by the **amniotic sac** which acts as a shock absorber
- Fetus Development Timeline:**
- Just a dot:** 1 week – cells beginning to specialise
  - 3 mm long:** 4 weeks – spine and brain forming, heart beating
  - 3 cm long:** 9 weeks – tiny movements, lips and cheeks sense touch, eyes and ears forming
  - 7 cm long:** 12 weeks – fetus uses its muscles to kick, suck, swallow, and practise breathing

B2

Reproduction  
Knowledge organiser  
page 1

**Activate**  
Question • Progress • Succeed



## KS3 Athletics

Using the tables, keep a record of what level you are at for each event you try in PE. Put your own scores in the appropriate box on the left

### Girls Results

STAGE PROGRESSIONS	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9
<b>SPRINTS</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
50m Standards	14.8s	12.2s	10.6s	9.9s	9.2s	8.6s	8.1s	7.7s	7.3s
75m Standards	21.0s	17.3s	15.3s	13.8s	12.8s	12.1s	11.5s	11.0s	10.5s
100m Standards	23.0s	19.0s	17.0s	15.5s	15.0s	14.6s	14.2s	13.9s	13.7s
200m Standards	-	-	-	31.7s	30.8s	30.5s	29.7s	29.2s	28.5s
300m Standards	-	-	-	55.0s	53.5s	52.0s	50.0s	48.5s	46.0s
<b>HURDLES</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
60m Standards	25.0s	19.3s	16.0s	14.0s	12.5s	11.5s	11.0s	10.5s	10.1s
70m Standards	24.0s	21.0s	18.9s	17.3s	15.9s	14.6s	13.7s	13.1s	12.7s
75m Standards	23.0s	21.0s	18.5s	17.0s	16.0s	15.0s	14.0s	13.7s	13.4s
80m Standards	-	-	-	-	-	15.0s	14.2s	13.9s	13.6s
<b>ENDURANCE</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
400m Standards	3m 20s	2m 30s	2m 10s	1m 55s	1m 40s	1m 25s	1m 15s	1m 10s	1m 05s
600m Standards	6m 00s	4m 30s	3m 30s	3m 00s	2m 40s	2m 30s	2m 20s	2m 10s	2m 00s
800m Standards	5m 00s	4m 45s	4m 30s	4m 10s	3m 45s	3m 20s	2m 55s	2m 45s	2m 35s
1500m Standards	7m 20s	7m 00s	6m 44s	6m 30s	6m 17s	6m 06s	5m 55s	5m 42s	5m 24s
<b>JUMPS</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
Standing Long Jump	0.35m	0.90m	1.35m	1.55m	1.70m	1.90m	2.20m	2.40m	2.60m
Long Jump	1.00m	1.80m	2.30m	2.80m	3.10m	3.40m	3.70m	4.00m	4.30m
Standing Triple Jump	1.00m	2.40m	3.60m	4.40m	4.80m	5.20m	-	-	-
High Jump	0.20m	0.50m	0.75m	0.90m	1.00m	1.10m	1.20m	1.28m	1.36m
<b>THROWS</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
Shot Put	1.00m	2.00m	3.00m	4.25m	5.25m	6.00m	6.50m	7.00m	8.00m
Javelin	1.00m	5.00m	7.00m	9.00m	12.00m	15.00m	18.00m	21.00m	24.00m
Discus	1.00m	3.00m	5.00m	7.00m	9.00m	13.00m	17.00m	19.00m	21.00m

### Boys Results

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100m Standards	23.0s	18.7s	16.7s	14.6s	14.2s	13.8s	13.4s	13.0s	12.7s
200m Standards	-	-	-	30.3s	29.3s	28.8s	27.6s	27.0s	26.0s
300m Standards	-	-	-	56.5s	54.0s	51.5s	48.5s	45.0s	42.5s
<b>HURDLES</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
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75m Standards	23.0s	21.0s	18.0s	16.5s	15.3s	14.5s	13.8s	13.5s	13.2s
80m Standards	-	-	-	-	-	15.2s	14.4s	14.0s	13.4s
<b>ENDURANCE</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
400m Standards	3m 20s	2m 30s	2m 05s	1m 45s	1m 35s	1m 20s	1m 10s	1m 05s	1m 00s
600m Standards	6m 00s	4m 30s	3m 20s	2m 50s	2m 30s	2m 15s	2m 05s	2m 00s	1m 50s
800m Standards	4m 00s	3m 40s	3m 20s	3m 00s	2m 50s	2m 41s	2m 33s	2m 27s	2m 20s
1500m Standards	6m 20s	6m 05s	5m 50s	5m 38s	5m 28s	5m 19s	5m 10s	4m 59s	4m 46s
<b>JUMPS</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
Standing Long Jump	0.35m	0.90m	1.40m	1.60m	1.80m	2.00m	2.30m	2.60m	2.80m
Long Jump	1.00m	1.80m	2.40m	3.00m	3.50m	4.00m	4.40m	4.70m	5.05m
Standing Triple Jump	1.00m	2.40m	4.00m	4.60m	5.10m	5.60m	-	-	-
Triple Jump	-	-	-	-	-	6.40m	8.50m	9.70m	10.60m
High Jump	0.20m	0.50m	0.80m	1.00m	1.10m	1.20m	1.30m	1.40m	1.50m
<b>THROWS</b>	<b>1 Star</b>	<b>2 Star</b>	<b>3 Star</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>	<b>Platinum</b>	<b>Elite</b>	<b>Podium</b>
Shot Put	1.00m	2.00m	3.25m	4.80m	5.80m	6.80m	8.00m	9.40m	10.15m
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Discus	1.00m	5.00m	8.00m	10.00m	12.00m	17.00m	22.00m	24.00m	26.00m



# Year 7 Film Music

## Film Music Key Terms

Key Term	Definition
<b>Leitmotif</b>	A frequently recurring short melodic or harmonic idea which is associated with a character, event, concept, idea, object or situation in film music.
<b>Mickey-Mousing</b>	When the music fits precisely with a specific part of the action in a film e.g. cartoons.
<b>Diegetic Music</b>	Music within the film for both the characters and audience to hear e.g. a car radio, a band in a nightclub or sound effects.
<b>Non-Diegetic Music</b>	Music which is put "over the top" of the action of a film for the audience's benefit and which the characters within a film can't hear.
<b>Soundtrack</b>	The music and sound recorded on a motion-picture film. The word can also mean a commercial recording of a collection of music and songs from a film sold individually as a CD or collection for digital download.
<b>Storyboard</b>	A graphic organiser in the form of illustrations and images displayed in sequence to help the composer plan their soundtrack.
<b>Cuesheet</b>	A detailed listing of musical cues matching the visual action of a film so that composers can time their music accurately.
<b>Ostinato</b>	A musical phrase that persistently repeats in the same musical voice.
<b>Underscore</b>	Where music is played at the same time as the action or dialogue.
<b>Drone</b>	A sustained tone, usually rather low in pitch.

## The History of Film Music



Early films had no soundtrack (silent cinema) and music was provided live, usually **improvised** by a pianist or organist. The first **soundtracks** appeared in the 1920's and used existing music (**borrowed music**— music composed for other (non-film) purposes) from composers such as Wagner and Verdi's operas and ballets.

In the 1930's and 1940's Hollywood hired composers to write huge Romantic-style soundtracks. **Jazz** and **experimental music** was sometimes used in the 1960's and 1970's. Today, film music often blends **popular**, **electronic** and **classical** music together in a flexible way that suits the needs of a particular film.

## The Purpose of Music in Film

Film music is a type of descriptive music that represents a **mood**, **story**, **scene** or **character** through music, it is designed to support the action and emotions of the film on screen. Film Music can be used to:

1. Create or enhance a mood through the elements of music
2. Function as a leitmotif
3. To emphasise a gesture
4. Provide unexpected juxtaposition/irony
5. Link one scene to another providing continuity
6. Influence the pacing of a scene making it appear faster/slower
7. Illustrate the geographic location (using instruments associated with a particular country) or historical period (using music 'of the time').



## How Leitmotifs Are Used To Enhance Music in Film

Leitmotifs can be changed through **sequencing**, **repetition** or **modulation** giving a hint as to what may happen later in the film or may be heard in the background giving a "subtle hint" to the listener e.g. the "Jaws" Leitmotif.

## How the Elements of Music are used in Film Music

Key Term	Definition
<b>Melody/Pitch</b>	<ul style="list-style-type: none"> <li>• Rising or ascending melodies/pitches are often used for <u>increasing tension</u>.</li> <li>• Falling or descending melodies/pitches for <u>defeat</u>.</li> <li>• Westerns often feature a <b>big theme</b>.</li> <li>• Question and answer phrases can represent <u>good versus evil</u>.</li> <li>• The interval of a fifth is often used to <u>represent outer space with its sparse sound</u>.</li> </ul>
<b>Articulation</b>	<ul style="list-style-type: none"> <li>• Legato (smooth) for flowing or happy scenes.</li> <li>• Staccato (detached) for 'frozen' or 'icy' wintery scenes.</li> <li>• Accents (&gt;) for violence or shock.</li> </ul>
<b>Dynamics</b>	<ul style="list-style-type: none"> <li>• Forte to represent <u>power</u>.</li> <li>• Piano to represent <u>weakness/calm/resolve</u>.</li> <li>• Crescendos used for <u>increasing threat, triumph or proximity</u>.</li> <li>• Diminuendos used for <u>things going away into the distance</u>.</li> <li>• Horror Film soundtracks often use <b>extreme dynamics</b> or <b>sudden dynamic changes</b> to <u>shock the listener</u>.</li> </ul>
<b>Texture</b>	<ul style="list-style-type: none"> <li>• Thin/sparse textures for <u>bleak, lonely scenes</u>.</li> <li>• Thick/full textures for <u>active scenes of battles</u>.</li> </ul>
<b>Harmony</b>	<ul style="list-style-type: none"> <li>• Major to represent <u>happiness</u>.</li> <li>• Minor to represent <u>sadness</u>.</li> <li>• Consonant harmony for <u>good</u>.</li> <li>• Dissonant harmony for <u>evil</u>.</li> </ul>
<b>Rhythm/Metre</b>	<ul style="list-style-type: none"> <li>• 2/4 or 4/4 for Marches (battles)</li> <li>• 3/4 for Waltzes, 4/4 for "Big Themes" in Westerns.</li> <li>• Irregular Time Signatures used for tension.</li> <li>• Ostinato (repeated pattern) rhythms for repeated sounds e.g. horses.</li> </ul>

## Film Music Composers



**John Williams**  
Star Wars  
Jaws  
Harry Potter



**Hans Zimmer**  
The Lion King  
Gladiator  
Dunkirk



**Danny Elfman**  
Mission Impossible  
Men In Black  
Spiderman



**James Horner**  
Titanic  
Star Trek II  
Apollo 13



**Alan Silvestri**  
Back to the Future  
Forrest Gump  
Castaway



**Michael Giacchino**  
The Incredibles  
Star Trek (2009)  
Up!

## MADTSHIRT

- MELODY
- ARTICULATION
- DYNAMICS
- TEMPO
- STRUCTURE
- HARMONY
- INSTRUMENTS
- RHYTHM
- TEXTURE

# KS3 Dance Knowledge Organiser

## Dynamic content:

Fast/slow  
Sudden/sustained  
Acceleration/  
deceleration  
Strong/light  
Direct/indirect  
Flowing/abrupt

## Action content:

Travel  
Turn  
Elevation  
Gesture  
Stillness  
Use of different body parts  
Floor work  
Transfer of weight

## Spatial content:

Pathways  
Levels  
Direction  
Size of movement  
Patterns  
Spatial design

## Relationship content:

Lead and follow  
Mirroring  
Action and reaction  
Accumulation  
Complement and contrast  
Counterpoint  
Contact  
Formations

## Choreographic devices:

Motif and development  
Repetition  
Contrast  
Highlights  
Climax  
Manipulation of number  
Unison and canon

## Structuring devices and form:

Binary  
Ternary  
Rondo  
Narrative  
Episodic  
Beginning/middle/end  
Unity  
Logical sequence Transitions

## Choreographic processes:

Researching  
Improvising  
Generating  
Selecting  
Developing  
Structuring  
Refining and synthesising

## Physical skills:

Posture  
Alignment  
Balance  
Coordination  
Control  
Flexibility  
Mobility  
Strength  
Stamina  
Extension  
Isolation

## Expressive skills:

Projection  
Focus  
Spatial awareness  
Facial expression  
Phrasing  
Musicality  
Sensitivity to other dancers  
Choreographic intent

## Technical skills:

Action content  
Spatial content  
Dynamic content  
Timing content  
Rhythmic content  
Movement in a stylistically accurate way

## Features of production:

**Staging/set:** e.g., projection, furniture, structures, backdrop, screens and features of these such as colour, texture, shape, decoration, materials.

**Lighting:** e.g., colour, placement, direction, angles etc.

**Properties:** e.g., size, shape, materials, how used etc.

**Costume:** footwear, masks, make up, accessories, Features such as colour, texture, material, flow, shape, line, weight, decoration and how they define character or gender, identify characters, enhance or sculpt the body and enhance action.

**Dancers:** number and gender.

**Aural setting:** e.g., song, instrumental, orchestral, spoken word, silence, natural sound, found sound, body percussion, style, structure and musical elements such as tone, pitch and rhythm.

**Dance for camera:** e.g., placement, angle, proximity, special effects.

## Key words

### Choreographic intention:

The aim of the dance; what the choreographer aims to communicate.

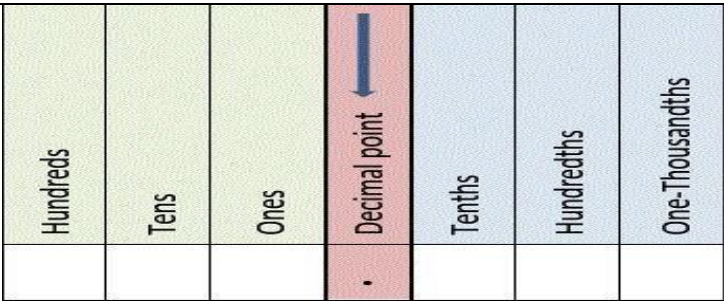


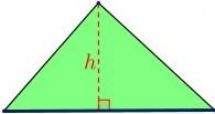
### Choreographic approach:

The way in which a choreographer makes the dance.

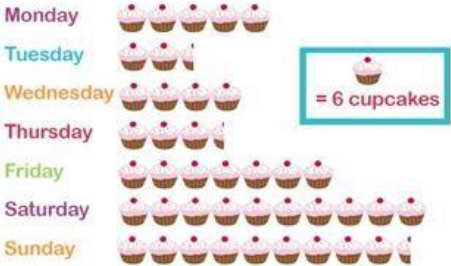
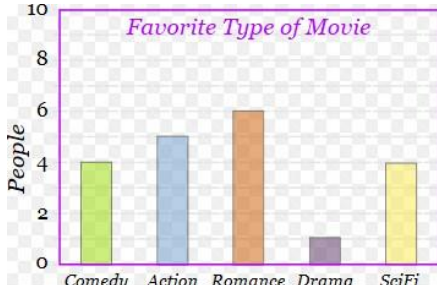
**Stimulus:** Inspiration for an idea or movement.

**Motif:** A movement phrase encapsulating an idea that is repeated and developed throughout the dance.

# Y7 Spring Maths Knowledge Organiser

Topic	Key fact	Hegarty maths clip number
Read, write and compare positive integers and decimals		13, 14 45 & 46
Multiply and divide by powers of 10	Multiplying: Move the digits to the left Dividing: Move the digits to the right	15 & 16
Calculations with integers	Addition and Subtraction: put in columns Multiplication: Remember place holder Division: Remember bus stop and remember to carry	1 to 12 & 18 to 23
Rounding	5 or more: round up 4 or less: keep the same Look to the right Significant figures: start counting at first non-zero	17, 56 & 130
Estimation	Round each value to 1 significant figure	131
Simplify expressions	Collect all the 'like' terms (numbers, $x$ , $x^2$ , $x^3$ are all separate terms) e.g. $12 + 3x + 6x^2 - 2x^3 - 5 - 3x + 5x^2 + 7x^3 = 7 + 11x^2 + 5x^3$ $3y$ means $3 \times y$ $\underline{\quad} \times$ means $7 \div x$	156 and 157
Simplifying ratio	Divide all parts by the highest common factor. Always include the colon (:).	329
Perimeter	Perimeter is the distance all the way round a shape. All sides added together.	548-552
Area	<div> <div>           rectangle    <math>A = bh</math> </div> <div>           parallelogram    <math>A = bh</math> </div> <div>           triangle    <math>A = \frac{1}{2}bh</math> </div> </div>	553-559



<b>Pictograms</b>	<p>Use the key to work out the number of cupcakes sold each day.</p> <div><div><div>Monday</div><div>Tuesday</div><div>Wednesday</div><div>Thursday</div><div>Friday</div><div>Saturday</div><div>Sunday</div></div><div></div></div> <div><div><math>5 \times 6 = 30</math></div><div><math>2.5 \times 6 = 15</math> <math>4 \times 6 = 24</math></div><div><math>3.5 \times 6 = 21</math></div><div><math>7 \times 6 = 42</math></div><div><math>10 \times 6 = 60</math></div><div><math>9.5 \times 6 = 57</math></div></div>	426
<b>Bar charts</b>	<p>Which type of movie was most popular? <b>Romance</b></p> <p>How many people said comedy was this favourite? <b>4</b></p> <p>How many people were asked in total? <math>4 + 5 + 6 + 1 + 4 = \mathbf{20}</math></p> <div></div>	425

### Key Vocabulary

- Integer – a whole number
- Product – the result of a multiplication.
- Divisor – the number that you are dividing by. Eg. 16 divided by 2. 2 is the divisor.
- Quotient - the answer after you divide one number by another.
- Power/Indices - The index of a number says how many times to use the number in a multiplication. It is written as a small number to the right and above the base number.
- Root – The inverse operation of a power.
- Significant figures - Leading zeros are not significant. For example, 0.00052 has two significant figures: 5 and 2. Trailing zeros in a number containing a decimal point are significant.
- Remainder - A remainder in mathematics is what's left over in a division problem.
- Round - Rounding means making a number simpler but keeping its value close to what it was.
- Truncate – A method of approximating a decimal number by dropping all decimal places past a certain point without rounding.
- Estimate - To estimate means to find something close to the correct answer.
- Approximate – an alternative word for estimate.
- Area: The space inside a 2D shape
- Perimeter: Distance all around a shape
- Term- each part of an expression. A single number or variable within an expression.
- Expression- a mathematical sentence containing numbers and variables.
- Simplify: Write in shorter form.

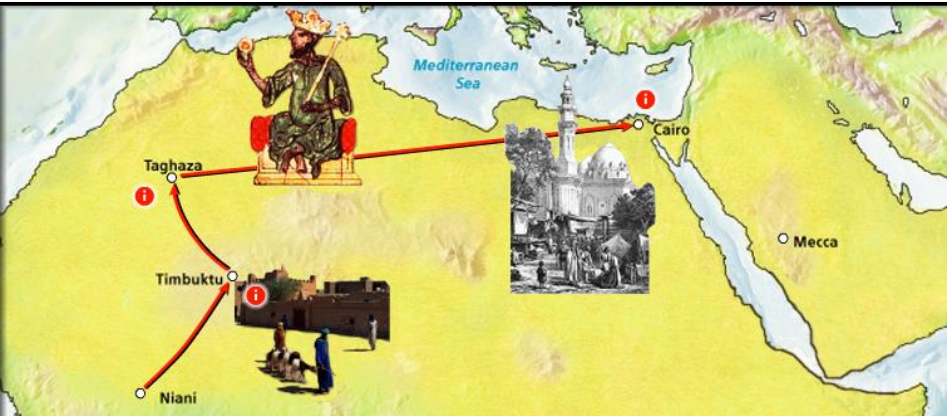
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AFRICAN CIVILISATIONS - KNOWLEDGE ORGANISER

Mansa Musa’s pilgrimage to Mecca - 1324



The Kingdom of Benin



Civilisation	A society that has developed certain features such as economic, military, political, religious, social, artistic and scientific.	
Ancient Egypt	The civilization of ancient Egypt lasted for over three thousand years, starting around 3,000 BC. The rulers of Ancient Egypt, known as Pharaohs, were regarded as gods on earth. (North-eastern Africa)	<b>Key Fact:</b> They were one of the first civilisations to invent writing.
The Kingdom of Benin	Until the late 19 <sup>th</sup> century, the Kingdom of Benin was one of the major powers in West Africa. The ruler was known as the Oba, who lived in beautiful palaces with shining brass. (West Africa)	<b>Key Fact:</b> People believed that brass had the power to drive away evil.
Kilwa	The former Islamic city state. In the 10 <sup>th</sup> Century it became one of the most active commercial centres on the east coast of Africa. It was held briefly by the Portuguese (1505-12), it thereafter gradually declined in importance and was finally abandoned. (East Africa)	<b>Key Fact</b> A massive palace was constructed in the 14 <sup>th</sup> C with 100 rooms and an octagonal swimming pool.
Empire of Ghana	Medieval trading empire. Ruled between 100 to 1100 AD. The Empire first formed when a number of tribes of the Sonike people were united under their first king, Dinga Cisse. “Ghana” was the word that the Sonike people used for their king, it meant “warrior king.” The main source of wealth was iron and gold. (West Africa)	<b>Key Fact</b> Iron smiths were considered magicians because they worked with fire and earth to create iron.
Mansa Musa	The 14 <sup>th</sup> Century Emperor of the Mali Empire. He is considered the richest man that ever lived. Most of his wealth came from gold and salt. He was a devout Muslim and went to Mecca in 1324. He took with him 60,000 people, 21,000 kilograms of gold and 80 camels. (West Africa)	<b>Key Fact</b> During his pilgrimage to Mecca, Mansa Musa gave away so much gold, the value of gold fell
Chimurenga	In 1896-97, the Zimbabwean tribes united to fight against British rule. The British Army were called in to defeat the tribes. A 2 <sup>nd</sup> Chimurenga started in the 1960s and lasted until the removal of the British in the 1980s. (Southern Africa)	<b>Key Fact</b> The first Chimurenga is now celebrated as Zimbabwe’s First War of Independence

TIMELINE OF MAJOR EVENTS

3100 BC – 30 BC Ancient Egypt	100 AD – Kingdom of Ghana begins to rise. It lasted until 1100 AD.	900 AD – Kingdom of Benin began	1100 AD – Great Zimbabwe city founded. The period of prosperity lasted until the mid-15 <sup>th</sup> Century.	1324 AD – Mansa Musa’s pilgrimage to Mecca	1500’s AD – The Atlantic Slave trade began	1875 AD – Slavery legally ended in West Africa.	1881 AD – Scramble for Africa began	1900 AD – Britain ruled over 30% of Africa’s population.
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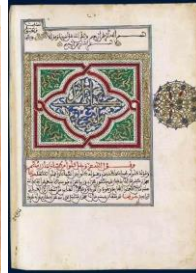
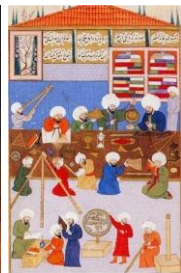
# The Islamic Golden Age Knowledge Organiser

## Key Information

In 726, the newly founded capital of Baghdad became the capital of the Muslim world.



- Islamic scholars and inventors adopted the Hindi symbol for zero and style of numerals (1, 2, 3, 4, 5, etc.) which we still use today
- Until 1258, Baghdad was the world centre of culture and learning, with the period being known as the Golden Age of Islam
- After the Prophet Muhammad's death some Arab countries became more united not enemies. The Muslim armies were very motivated. Their belief in the Prophet Muhammad gave them courage



### The House of Wisdom

- The place where scholars were invited to record their knowledge in Arabic
- All scholars were invited: Muslims, Jews and Christians
- Knowledge of medicine, astrology and science were the main areas studied and shared
- The knowledge was very advanced for its time, with cures for many serious ailments being discovered

## Subject Specific Vocabulary

### Baghdad

Baghdad today is the capital city of Iraq, and was the capital of the Muslim world.

### Civilisation

A civilisation is a human society with its own social organisation and culture. Ancient civilisation refers specifically to the first settled and stable communities that became the basis for later states, nations, and empires.

### Scholar

A highly educated person.

### Islam

The word 'Islam' in Arabic means submission to the will of God. Followers of Islam are called Muslims. Muslims believe there is one true God Allah (the Arabic word for God).

### Golden Age

A golden age is a period of time during which a very high level of achievement is reached in a particular field of activity, especially in art or literature.

### Empire

An empire is the collective name for a group of countries ruled by a single person, government or country.

### Cordoba

Córdoba was the capital of the Caliphate of Cordoba, an Islamic empire in the Middle Ages, when the city was the biggest in Europe, with 250,000 people.

### The House of Wisdom

A library or university where scholars from all over the world were invited to study.

### Astronomy

Astronomy is the study of outer space and all of the objects and bodies outside of the Earth's atmosphere, like stars, planets and comets.

### Calligraphy

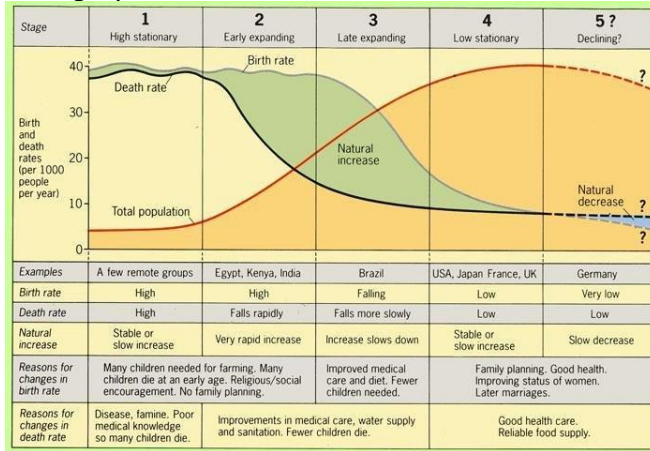
Calligraphy is the art of writing. The word is from the Greek language and means "beautiful writing". In the west, this was an interest in decorating words on the page.



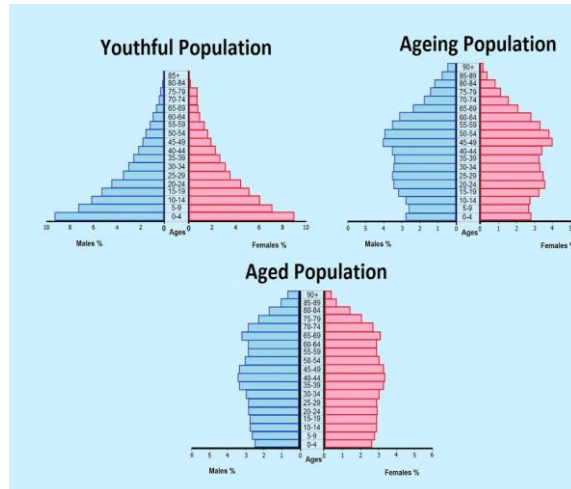


# Year 8 Knowledge Organiser (KO) - How does population, shape places?

## Demographic Transition Model



## Population Pyramids



## Push and Pull Factors

### What is a push factor?

Push factors are factors that will make people want to leave a particular location.

### What is a pull factor?

Pull factors are factors that will make people want to live in a particular area.

### Task

Colour code the statements into Push Factors (for Poland) and Pull Factors (for the UK).

Polish unemployment in 2005 was 18.2%.	The desire to live abroad.	The UK do not restrict immigration (as well as Ireland and Sweden).
UK skill shortages in tourism and construction industry.	Rural areas in Poland have 40% unemployment.	UK unemployment in 2005 was 5.1%.
Poland has a high youth unemployment rate.	Average UK job vacancies for Jan 2007 was over 600,000.	The average salary in the UK is \$30,900.
Unskilled labour needed in farming.	The opportunity to improve in the English language.	The average salary in Poland is \$12,700.

## What should I already know?

How to locate a place on a map

Different types of settlements

What is Leicester like

Why is population density as it is in these places? What factors affect it?  
Glue the photos into your book and add these annotations to the correct photograph.



Poor transport	Few schools
Business opportunities	Electricity & gas
Excellent healthcare	Flat land
Dating opportunities	Arranged marriages
Little social activity	Warm climate
River water	Job opportunities
No mobile signal	Modern culture

Few jobs	Clean piped water
Nightlife	No hospitals
Supermarkets	Good transport
No electricity & gas	Weekly market
Harsh climate	Good schools
Difficult terrain	International airports
Broadband internet	Traditional culture



Keywords	Definition
Birth rate	The number of babies born per 1000 people (per year)
Death rate	The number of deaths per 1000 people (per year)
Fertility rate	The number of babies born per woman
Migration	When people move from one place to another
Push factor	A reason that forces people to move away
Pull factor	A reason that draws people to a new place
Obstacle	A reason that prevents people from migrating when they might want to
Nomad	A person with no fixed home – they are permanently migrating

# UNIT 7

## Talking about pets

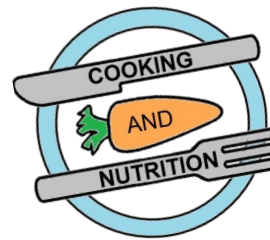
<p><b>A la maison, j'ai</b>  <b>Chez moi, j'ai</b>  <i>[At home I have]</i></p> <p><b>Je n'ai pas <u>de</u></b>  <i>[I don't have]</i></p> <p><b>Mon ami Denis a...</b>  <i>[My friend Denis has...]</i></p>	<p><b>un canard</b> <i>[a duck]</i></p> <p><b>un chat</b> <i>[a cat]</i></p> <p><b>un cheval</b> <i>[a horse]</i></p> <p><b>un chien</b> <i>[a dog]</i></p> <p><b>un cochon d'Inde</b>  <i>[a guinea pig]</i></p> <p><b>un hamster</b> <i>[a hamster]</i></p> <p><b>un lapin</b> <i>[a rabbit]</i></p> <p><b>un oiseau</b> <i>[a bird]</i></p> <p><b>un perroquet</b> <i>[a parrot]</i></p> <p><b>un poisson</b> <i>[a fish]</i></p> <p><b>un serpent</b> <i>[a snake]</i></p>	<p><b>qui s'appelle</b>  <b>Bronco</b>  <i>[that is called Bronco]</i></p> <p><b>il est</b>  <i>[he/it is]</i></p>	<p><b>petit</b> <i>[small]</i>  <b>grand</b> <i>[big]</i></p> <p><b>jaune</b> <i>[yellow]</i>  <b>bleu</b> <i>[blue]</i>  <b>blanc</b> <i>[white]</i>  <b>orange</b> <i>[orange]</i>  <b>noir</b> <i>[black]</i>  <b>rouge</b> <i>[red]</i>  <b>vert</b> <i>[green]</i></p> <p><b>barbant</b> <i>[boring]</i>  <b>joli</b> <i>[pretty]</i>  <b>amusant</b> <i>[fun]</i>  <b>moche</b> <i>[ugly]</i>  <b>rigolo</b> <i>[funny]</i>  <b>intelligent</b> <i>[clever]</i></p>
<p><b>Je voudrais avoir</b>  <i>[I would like to have]</i></p> <p><b>Je ne voudrais pas avoir <u>de</u></b>  <i>[I wouldn't like to have]</i></p>	<p><b>une araignée</b> <i>[a spider]</i></p> <p><b>une perruche</b> <i>[a budgie]</i></p> <p><b>une souris</b> <i>[a mouse]</i></p> <p><b>une tortue</b>  <i>[a turtle/tortoise]</i></p>	<p><b>qui s'appelle</b>  <b>Lola</b>  <i>[that is called Lola]</i></p> <p><b>elle est</b>  <i>[she/it is]</i></p>	<p><b>petite</b> <i>[small]</i>  <b>grande</b> <i>[big]</i></p> <p><b>jaune</b> <i>[yellow]</i>  <b>bleue</b> <i>[blue]</i>  <b>blanche</b> <i>[white]</i>  <b>orange</b> <i>[orange]</i>  <b>noire</b> <i>[black]</i>  <b>rouge</b> <i>[red]</i>  <b>verte</b> <i>[green]</i></p> <p><b>barbante</b> <i>[boring]</i>  <b>jolie</b> <i>[pretty]</i>  <b>amusante</b> <i>[fun]</i>  <b>moche</b> <i>[ugly]</i>  <b>rigolote</b> <i>[funny]</i>  <b>intelligente</b> <i>[clever]</i></p>
<p><i>Author's note: in the negative form in French the "un" or "une" turns into "de"</i>  <b>Examples: - Je n'ai pas de lapin (I don't have a rabbit)</b></p>			

# UNIT 6 (Part 1/2)

## Intro to describing myself and another family member

		MASCULINE	FEMININE
<b>Je</b>	<b>suis</b>	<b>beau</b> [ <i>handsome</i> ] <b>fort</b> [ <i>strong</i> ] <b>grand</b> [ <i>tall</i> ] <b>gros</b> [ <i>fat</i> ] <b>mince</b> [ <i>slim</i> ]	<b>belle</b> [ <i>pretty</i> ] <b>forte</b> [ <i>strong</i> ] <b>grande</b> [ <i>tall</i> ] <b>grosse</b> [ <i>fat</i> ] <b>mince</b> [ <i>slim</i> ]
<b>Ma petite sœur</b> <i>[my little sister]</i>  <b>Mon grand frère</b> <i>[my big brother]</i>  <b>Ma mère</b> [ <i>my mother</i> ]  <b>Mon père</b> [ <i>my father</i> ]	<b>est</b>	<b>moche</b> [ <i>ugly</i> ] <b>musclé</b> [ <i>muscular</i> ] <b>petit</b> [ <i>short</i> ]  <b>méchant</b> [ <i>mean</i> ] <b>ennuyeux</b> [ <i>boring</i> ] <b>généreux</b> [ <i>generous</i> ] <b>marrant</b> [ <i>fun</i> ] <b>sympathique</b> [ <i>nice/friendly</i> ] <b>têtu</b> [ <i>stubborn</i> ] <b>timide</b> [ <i>shy</i> ]	<b>moche</b> [ <i>ugly</i> ] <b>musclée</b> [ <i>muscular</i> ] <b>petite</b> [ <i>short</i> ]  <b>méchante</b> [ <i>mean</i> ] <b>ennuyeuse</b> [ <i>boring</i> ] <b>généreuse</b> [ <i>generous</i> ] <b>marrante</b> [ <i>fun</i> ] <b>sympathique</b> [ <i>nice/friendly</i> ] <b>têtue</b> [ <i>stubborn</i> ] <b>timide</b> [ <i>shy</i> ]

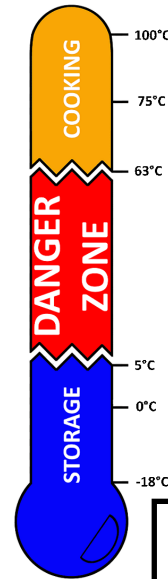
# Year 7 - Healthy Eating



Food safety and hygiene is about protecting people and reducing the risk of food poisoning.



[https://www.youtube.com/watch?v=kEZvOyp\\_-8c](https://www.youtube.com/watch?v=kEZvOyp_-8c)



Get active.



60 active minutes

do you get yours everyday?



<https://www.nhs.uk/change4life/activities/sports-and-activities>  
<https://www.youtube.com/watch?v=k5Y9D37KmJo>

The 8 tips for healthy eating can help you make healthier choices.

1. Base your meals on starchy foods
2. Eat lots of fruit and veg
3. Eat more fish – including a portion of oily fish each week
4. Cut down on saturated fat and sugar
5. Try to eat less salt – no more than 6g a day for adults
6. Get active and try to be a healthy weight
7. Drink plenty of water
8. Don't skip breakfast

<https://www.youtube.com/watch?v=UIQ1Hyq9HG0>

<https://www.nhs.uk/live-well/eat-well/eight-tips-for-healthy-eating/>

The Eatwell Guide shows how much of what we eat overall should come from each food group to achieve a healthy, balanced diet.



<https://www.youtube.com/watch?v=7MIE4G8ntss>  
<https://www.nhs.uk/live-well/eat-well/the-eatwell-guide/>

<https://www.youtube.com/watch?v=PByM12M1n3A>



Starchy foods give us the energy we need to keep going each day.

## Key vocabulary

clean / cook / chill / separate  
 cross-contamination / safety  
 bacteria / food poisoning  
 temperatures / danger zone  
 carbohydrates / protein  
 dairy / function / hydration  
 seasonality / portion  
 calories / energy



Eat at least 5 portions of a variety of fruit and vegetables every day.

<https://www.youtube.com/watch?v=K5pW7rpMTQw>

Water.



<https://www.youtube.com/watch?v=24lvMvFKFZo>  
<https://www.youtube.com/watch?v=b7s2Aqj72Q8>

Foods high in fat, salt and sugars should be eaten less often and in smaller amounts.



<https://www.youtube.com/watch?v=Jfac64PI14Q>  
<https://www.youtube.com/watch?v=vADtodHhfKU>



# Year 7 - Cooking skills

## Equipment

				
Vegetable peeler	Measuring jug	Mixing bowl	Colander	Box grater
				
Digital scales	Saucepan	Frying pan	Flour dredger	Pastry brush

## Skills and Processes

### Bridge hold and Claw grip



**Used in:** fruit salad, pasta salad, sausage rolls, Spanish omelette, potato wedges and salsa

### Knife skills: peeling, chopping, slicing, dicing



**Used in:** fruit salad, pasta salad, sausage rolls, Spanish omelette, potato wedges and salsa

### Weighing and Measuring



**Used in:** fruit salad, pasta salad, cheesy pinwheels, goujons, breakfast muffins, sausage rolls, scones, potato wedges

### Rubbing in technique



**Used in:** cheesy pinwheels and scones

## Key word

## Meaning

### Enzymic browning

Discolouration that occurs when some fruit/vegetables (eg. apples, bananas, potatoes) are cut; caused by exposure to oxygen in the air.

### Boiling

Water boils at 100°C, vigorous bubbles are visible. Pasta can be cooked this way.

### Rubbing in

Combining butter and flour together using your fingertips.

### Enrobing

Coating an item of food (eg. fish, chicken) in flour, egg, breadcrumbs.

### Glazing

Brushing with a milk or egg wash to give colour and shine to your food product (eg. sausage rolls, scones)

## Independent skills I need to learn in Year 7

**Use the bridge hold and claw grip** to cut food safely and accurately.

**Use a range of other preparation techniques** eg. peeling, chopping, slicing, dicing, grating etc.

**Weigh and measure** ingredients accurately.

**Organise** all my ingredients and follow a recipe.

**Use the cooker** (eg. hob and oven) safely.

## Food safety

Using **colour coded chopping boards** and equipment prevents **bacteria** spreading and causing **food poisoning**.

### PREVENT CROSS CONTAMINATION

USE CORRECT COLOUR CODED CHOPPING BOARDS & KNIVES

RAW MEAT

RAW FISH

COOKED MEATS

SALAD & FRUITS

VEGETABLES

DAIRY PRODUCTS



# Year 7 – spring term focus: Intro to Victorians



Queen Victoria reigned from 1837 to 1901.

There was a strong religious following at the time – the whole country was Christian and attended church on a Sunday.

People tended to have large families in the Victorian period; Victoria had 9 children herself with the “love of her life”, Albert, whom she married when she was 20 years old. →

There were many issues for poorer people living in Victorian Britain: **unsanitary, unclean and unhygienic housing – often overcrowded. Very low wages. No access to varied food, hence poor diet. Lack of employment laws or support for people – when old(er) they were sacked.**



## Key terminology:

Industrial revolution

Romanticism

Poor Law

Charles Dickens

Poverty

Disparity

Child labour

Class system

Education was not free for all in the Victorian period; only boys of middle class families would attend school, and sometimes only the first born son would attend. Girls and women had far less rights and access to education and jobs in the 1800s.

Because people were so poor, and there were no laws against, young children were sent to work. This was known as child labour. Children would be used to do jobs where smaller bodies worked better than bulky adult ones – like fitting up chimneys or on a production line (so more could fit in and complete more work). →





# *The Signal Man* by Charles Dickens

## **VOCABULARY**

### **Tarpaulin**

Waterproofed canvas

### **Ruminate**

reflect deeply on a subject

### **Foreshorten**

shorten lines in a drawing so as to create an illusion of depth

### **Manual Labour**

Work done with the hands

### **Fits and starts**

repeated bursts of activity

### **Coincidence**

the property of two things happening at the same time  
a small cut

### **Agonised**

expressing pain or agony

### **Rarity**

something unusual -- perhaps worthy of collecting

### **Saturnine**

bitter or scornful

### **Apprise**

inform somebody of something

### **Natural Philosophy**

the science of matter and energy and their interactions

### **furled**

rolled up and secured

### **Condense**

cause a gas or vapor to change into a liquid

### **Vigilant**

carefully observant or attentive

### **Prolongation**

the act of prolonging something

### **Agonise**

suffer agony or anguish

### **Spectre**

a ghostly appearing figure

### **Gesticulate**

show, express, or direct through movement

### **Notched**

notched like a saw with teeth pointing toward the apex

### **Transgressive**

going beyond acceptable boundaries of taste, convention, or the law:



## **1<sup>st</sup> person narrative –**

Where the book uses “I” and “me”, as though the speaker is actually in the story, explaining and describing events as they happen.

Horror is a literary genre that attempts to make the reader feel fear or disgust in its audience for entertainment purposes. Horror books might include dark subject matter and may deal with transgressive topics or themes. Broad elements include monsters, apocalyptic events, and religious or folk beliefs.

Mystery is a fiction genre where the nature of an event, usually a murder or other crime, remains mysterious until the end of the story. Often within a closed circle of suspects, each suspect is usually provided with a credible motive and a reasonable opportunity for committing the crime.



# Computing - Programming Part 1

A computer will take inputs (this might be automatic or via human input), process the input and then produce the output. For example when you use a keyboard and mouse, the mouse is used to input data into the computer to be processed and the output is visible on the computer monitor.

**Variables** are used to store data for use in a program. They can store lots of different types of data such as names and scores.

So set variable score to equal 0

If I score a goal then increase variable by 1

Operators

Comparison operators allow us to compare using =, <, >.

Logical operators use AND, OR, NOT

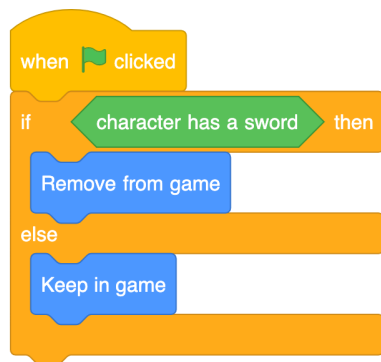
A **selection** statement in programming allows a computer to **evaluate** an **expression** to '**true**' or '**false**' and then perform an action depending on the outcome.

If 'character has a sword' is true:

Remove from game

Else:

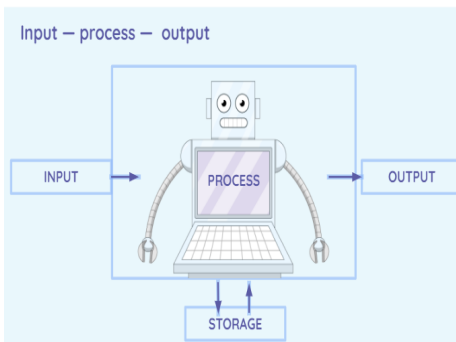
Keep in the game



**Debugging** is the process of finding an error in your code and taking steps to fix the problem.

**Count controlled iteration** will execute the commands a set number of times  
Example: "perform 200 star jumps"

**Condition-controlled iteration** will execute the commands until the condition you set is no longer being met  
Example: "perform star jumps until 3pm"



Scratch is a block based programming language. We can use predefined code in blocks to create algorithms.

## Key Words

abstraction	Identify the important aspects to start with
algorithm	Precise sequence of instructions
Computational thinking	Solving problems with or without a computer
debugging	Looking at where a program might have errors or can be improved
blocks	Scratch bricks that we can use to code algorithms
decomposition	Breaking down a problem into smaller parts
execute	A computer precisely runs through the instructions
iteration	Doing the same thing more than once
selection	Making choices (eg if .... else)
sequence	Running instructions in order
variable	Data being stored by the computer

We use algorithms in every day life, for example, an algorithm to get to school, to make a cup of tea, to make a pizza, to order a takeaway. These are just precise sequences of instructions.

**Sequence, selection and iteration** are all processes. In order for computers to perform tasks there is more that is needed. For example a computer will take an **input** (this might be automatic or via human input) which the computer will then **process** and the **output** will be visible on the computer monitor.



# Year 7 Networks

## Wired and Wireless data transmission

A computer network can be either wired or wireless.

- Wired networks send data along cables.
- Wireless networks send data through the air using radio waves.

**Bandwidth**—Bandwidth is the amount of data that can be moved from one point to another in a given time. Higher bandwidth = more data per second



**Bandwidth** is measured in bits per second

A bit is the smallest unit of data  
Data transfer rates are now so good that bandwidth is usually measured in Megabits per second (Mbps)  
1Mb—1 million bits

A **network** is where devices are connected together usually by cable or WiFi. This could be a few computers in a room, many computers in a building or lots of computers across the world.



## Internet services

There are a range of services provided by the internet. These include:

- World Wide Web
- Email
- Online gaming
- Instant messaging
- Voice over IP (VoIP) – audio calls
- Internet of Things (IoT)
- Media streaming (e.g. watching Netflix online)

The rules for each service are different.  
As a result, a different protocol is used.

**HTTP**—HyperText Transfer Protocol—used so that data can be understood when sent between web browsers and servers.

**HTTPS**—is the secure version of HTTP where data sent is encrypted.

## Key Words

bandwidth	Amount of data that can be moved from one point to another in a given time.
buffering	Data arriving slower than it is being processed
internet	A worldwide network of computers
Internet of Things (IoT)	Takes everyday 'things' and connects them to the Internet eg smart light bulb, fridge, heating etc
IP address	A unique address for every device on the internet
packet	Networks send/receive messages in units called packets
protocol	All methods of communication need rules in place in order to pass on the message successfully. These sets of rules are called 'protocols'
Search engine	A website that allows user to look up information on WWW e.g. Bing, Google etc
Web browser	Piece of software( code) used to view information on the Internet
WWW	Part of the Internet that contains websites and webpages. NOT the same as the Internet.

**Network Hardware**—physical equipment required to set up a network

**Hub**—Connects a number of computers together. Ports allow cables to be plugged in from each connected computer.

**Router**—Used to connect two separate networks together across the internet

**Server**—A powerful computer which provides services to a network

**Cable**—Used to connect different devices together. They are often made up of a number of wires.

**CLASSROOM RULES**

1. Hang your coat and blazer on pegs.
2. Put your bag **UNDER** the table.
3. Pencil cases **ON** the table.

4. **ALWAYS** listen carefully to instructions.
5. Wash hands after using paint, clay etc.

**PAINT NAMES**

Black  
Vandyke Brown  
Burnt Sienna  
Crimson  
Vermillion  
Prussian Blue  
Ultramarine  
Hookers Green  
Leaf Green  
Yellow Ochre  
Gamboge  
White

**CLAY LESSON**

Guide rules help you to roll out the clay evenly.



Tie your hair up.

Always wear an apron.



Hessian mat stops your work sticking to the table.

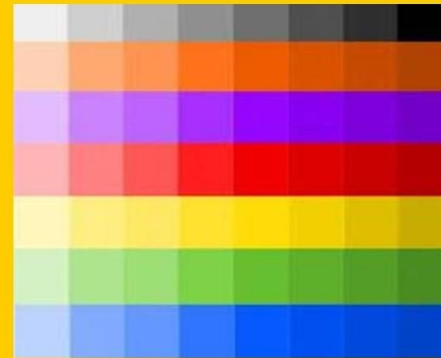
**LINE**

A Line is the path left by a moving point, e.g. a pencil or a brush dipped in paint. A line can take many forms, e.g. horizontal, diagonal or curved.

A Line can be used to show Contours, Movements, Feelings and Expressions.

**TONE**

Tone means the lightness or darkness of something. This could be a shade or how dark or light a colour appears

**SHAPE & FORM**

A shape is an area enclosed by a line. It could be just an outline or it could be shaded in.

Form is a three dimensional shape such as a sphere, cube or a cone.

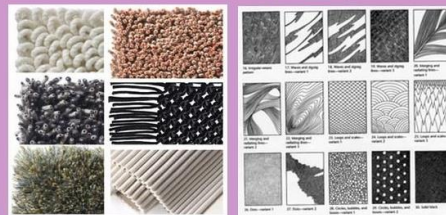
Sculpture and 3D design are about creating forms

**FORMAL ELEMENTS****TEXTURE**

Texture is the surface quality of something, the way something feels or looks like it feels. There are two types of texture: Actual Texture and Visual Texture.

Actual Texture—really exists so you can feel it or touch it

Visual Texture—created using different marks to represent actual texture.



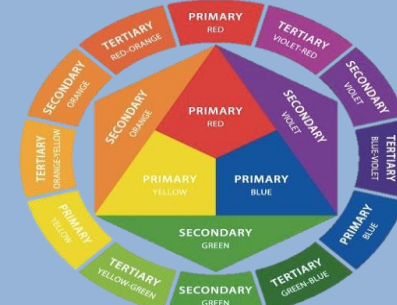
Actual Texture

Visual Texture

**COLOUR**

There are 3 Primary Colours: **RED**, **YELLOW** and **BLUE**.

By mixing any two Primary Colours together we get a Secondary Colour: **ORANGE**, **GREEN** and **PURPLE**

**PATTERN**

A pattern is a design that is created by repeating lines, shapes, tones or colours.

Patterns can be manmade, like a design on fabric, or natural, such as the markings on animal fur.

