

Year 7

Subject knowledge organiser

Name	
Year	
Tutor	

Index

- 3. Maths Sparx
- 4. How to use a knowledge organiser
- 5. Why we use a knowledge organiser
- 6. English
- 7. Science
- 8. Geography
- 9. History
- 10. Religious Studies
- 11. French
- 12. Spanish
- 13. Physical Education
- 14. Art
- 15. Drama
- 16. Music
- 17. Design technology
- 18. Computing Science



Sparx Maths

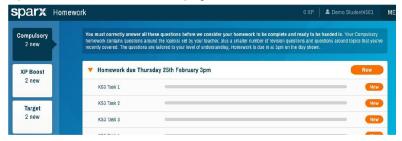
What exactly is Sparx Maths Homework?

Sparx homework is tailored to you, and should be just at the right level of challenge, based on the topics that your teacher has set.

Homework contains 3 elements: Compulsory, XP Boost and Target.

All questions in the Compulsory section must be answered correctly for the homework to be marked as complete. You may watch the videos on how to answer the questions to support you to 100% complete the work.

Each task bar will show as green when fully complete. For the homework to be classed as complete, all task bars for that homework need to be fully green. The percentage of homework complete will show on the menu page:



XP Boost questions are at a similar level to Compulsory, and offer extra practice.

Target questions have been designed to challenge you. You will receive a link to a video in your parent email each week, to help you offer them support and encouragement with their Target homework.

Get into good habits for completing homework

Try and set up a quiet work area to do your homework. If you don't have the space, consider setting aside routine 'quiet times' during the day, so you can concentrate, even if only for short periods of time.

Getting logged in to Sparx

Go to https://sparx.co.uk, click login in the top right corner, and select student login. Here you will be asked to start typing the name of their school before being prompted to select it from a dropdown list.

You're logging in to Sparx at Launceston College. Not your school?

Log in to Sparx using Google G

Click the large button that says log in to Sparx using Google, use your school google login and password.

Bookwork Checks.

We believe that a good standard of bookwork is very important in helping you to embed good practice, and to help you and your teachers to keep track of any misconceptions. In Sparx, every question is accompanied by a 'bookwork code'.

You should write this down, and then write your workings and answer next to the code. You will be asked for the answer you gave for a particular bookwork code, you need to give the exact answer you wrote down, even if it was wrong.

Here's an example of good bookwork; as you can see all workings and wrong answers have been recorded:



If you fail a bookwork check in Sparx, you will need to re-do the question, even if they originally gave the correct answer. This is to encourage you to record your workings. The more bookwork checks you gets correct, the fewer they'll see. So, if you fail bookwork checks you will need to keep repeating question and then your homework will take you longer.

Timetables is part of your compulsory homework.

The times tables task is an additional task that is part of your compulsory homework. The first time that this is in homework, there will be an initial diagnostic assessment that will ask a series of tables, until you get enough wrong that the system will stop and give you a club.

You will be placed into a club ranging from 10-100 club, which is an indication of which tables you are able to fluently and confidently answer in good time (under 6 seconds). In order to complete the compulsory task, you will need to answer 50 questions correctly. The system will notify them when they have completed their compulsory amount, and they can continue to work on times tables after this.

Once you complete your initial assessment, you will be shown target tables that you need to practice. You will also see tasks that are available, which will ask you a variety of questions designed to teach and practise these targets, whilst also mixing in some short, engaging games. Once students practise enough, they will then be given a new assessment, where they have the opportunity to move up in their 100 club and generate new targets to practice.



How to use a knowledge organiser for homework

Knowledge organisers contain critical knowledge you must know.

Using your knowledge organiser will help you recap, revisit and revise what you have learnt in lessons in order to remember this knowledge for the long-term.

You will use your knowledge book for all of your homework except Maths.

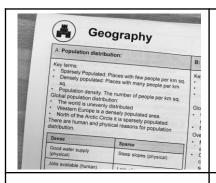
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Just like in lessons, you need start by writing the title (subject and section of knowledge organiser) and the date. Make sure you underline it too.

Once you have completed the above you need to follow start the look cover write correct process as outlined below:



1. Read a section of your knowledge organiser several times.



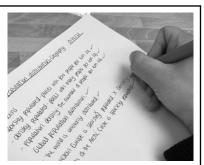
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3. Write out what you've remembered.



4. Check the knowledge organiser to see if you're right.



5. Correct any mistakes in ideally in a different coloured pen. Repeat this process two more times - even if you got 100% correct.



Why do we use a knowledge organiser?

Knowledge organisers contain critical knowledge you must know.

Why do we keep revisiting knowledge so often?

a large but crowded storehouse.

Know more: the more students know, the more they learn.

Remember more: the more (and better) we recap, the more we remember.

Succeed more: if we remember more, we succeed more in subjects and life.

Over a century of research has found what the mind struggles with in learning: distraction, overload and forgetting. A knowledge organiser can help us to reduce overloads as the material is chunked in to section but also by revisiting knowledge over time we reduce forgetting.

There are three main parts in There are three main struggles the mind has in learning. how the mind learns. Attention Distraction What we focus on and what we ignore in our thinking, which is limited. **Working Memory** Overload Where knowledge is thought about in the mind: a limited bottleneck. **Long Term Memory** Where knowledge is stored in the mind: Forgetting



Sparx Maths

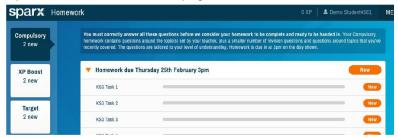
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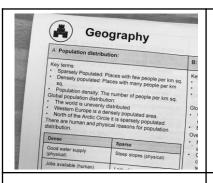
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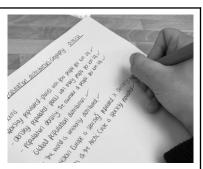
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A: Grammar

Noun: a word used to name a person, place or thing. E.g. The Anglo Saxons lived in Britannia and wrote in runes Verb: a word used to name an action or occurrence. E.g. Alfred fought_the Vikings in battle and became King Alfred the Great.

Adjective: a word used to describe a noun. E.g. *The* **beautiful** Lindisfarne Gospels are some of the **earliest** manuscripts to have survived.

Adverb: a word used to describe a verb.

E.g. Tyndale carefully smuggled Bibles into England

Subject: the person or thing in a sentence that is doing something. E.g. *Tyndale* carefully smuggled Bibles into England

Object: the person or thing in a sentence that something is done to E.g. *Tyndale smuggled Bibles into England*

Independent clause: a group of words that contain a subject and a verb, that makes sense as a complete thought. E.g. *The pieces of Uranus's body remained in the sea.*

Dependent clause: a group of words that contains a subject and verb but does not express a complete thought. E.g. *The pieces of Uranus's body remained in the sea,* where a white foam surrounded them.

Simple Sentence: a sentence that has only one clause (containing a subject and a verb). E.g. *Prospero commanded Ariel to make the storm.*

Compound Sentence: a sentence that has two independent clauses, joined by a conjunction like 'and' or 'but'. E.g. *Prospero commanded Ariel to make the storm,* **but** the storm did not harm anyone on the ship.

Complex Sentence: a sentence that contains an independent clause and at least one dependent clause (often in the form of an extra piece of information).

E.g. Prospero commanded Ariel to make the storm, hoping to get revenge on his enemies.

B: Methods

Anthropomorphism / **humanisation**: the attribution of human characteristics or behaviour to a god, animal, or object. E.g. *The Greek gods are presented as humans through their behaviour and emotions.*

Personification: giving something inanimate or not human, human qualities. E.g. *Uranus represents the sky*. **Symbol**: a person, colour, object, word etc. that represents something else. E.g. *Zeus possesses a lightning bolt which represents that he is god of the sky*.

Imagery: the use of language to create images in the reader's minds. E.g. "With eyes that dripped with poisonous tears and breath that was too foul to bear..."

Staging: the method of presenting a play or other dramatic performance. E.g. Shakespeare carefully considered how the play will be staged - where characters will be positioned etc.

Adjective: a word that describes a noun. E.g. "you bawling, blasphemous, incharitable dog!"

Pathetic fallacy: the use of the weather / setting to reflect the mood. E.g. the storm in the opening of the play reflects the uncertainty of subsequent events.

Simile: comparing something to something else using "like" or "as". E.g. "Nor lead me like a firebrand in the dark"

Metaphor: saying something is something else. E.g. "he was / The ivy which had hid my princely trunk"

Repetition: saying something more than once. E.g. *Prospero repeats the story of how he saved Ariel.*

Soliloquy: when a character speaks their inner thoughts out loud to the audience. E.g. in Act One Scene Three, Caliban begins his soliloquy: "All the infections that the sun sucks up"

Dramatic irony: when the audience is better informed about something than at least one character. E.g. the audience knows that characters are safe and distributed throughout the island and individual characters are unaware of this and believe that they are isolated from humanity.

C: Themes

Revenge: a theme mainly associated with a character's anger or grief. A character seeking vengeance may commit an act of revenge. E.g. *Gaea wanted revenge on Uranus because he banished their children to Tartarus*. Betrayal: a theme affecting characters' relationships. Like revenge, it is a theme which often brings about a character's worst side. E.g. *Prometheus betrayed Zeus by supporting the humans*.

Morality: a theme where characters' moral judgments and their sense of right and wrong are explored. A character may be regarded as moral or immoral.

Power: a common theme running through so many literature texts including myths, Chaucer and 'The Tempest'. E.g. in 'The Tempest' Prospero holds colonial power over Caliban but Ariel has magical power. **Supernatural**: the theme of the supernatural helps to

create a mystical effect for readers. It centres around characters such as Aerial in 'The Tempest'. In myths there are many supernatural beings. The supernatural would have been an exciting theme for Shakespeare's audience. **Hierarchy**: the theme of hierarchy establishes a social order usually based on status, authority, wealth, gender. **Usurpation**: the act of overthrowing someone in a position of power. E.g. *Prospero was a victim of usurpation*.

Conspiracy: a secret plan to do something unlawful or harmful. E.g. Antonio's conspiracy to overthrow Prospero was successful.

Ambition: Ambition is a key theme in many literature texts. It is a strong desire to do or achieve something. E.g. Antonio's ambition was driven by a desire for power.

Mercy: the kindly treatment of those in distress, especially when a character has the power to punish or harm. E.g. Prospero shows mercy to Antonio at the end of the play.

Forgiveness: a conscious, deliberate decision to let go of feelings of anger or vengeance. E.g. Prospero shows forgiveness towards those who conspired against him.

Justice: a deserved punishment/reward; fairness. E.g. Justice was served when Kronos mutilated Uranus.

Correct

Science

A: Cells **B:** Particles C: Forces All cells have: · A force is a push or pull that causes a change in Nucleus: Controls cell processes and contains DNA speed, shape or direction. Cytoplasm: Where the chemical reactions of the cell take Contact forces involve objects that are touching such Solid Liquid Gas place as elastic force, air resistance, friction, tension and Melting Mitochondria: Site of respiration to release energy compression **Evaporating** Cell membrane: Controls movement of substances in and Freezing Non-contact forces are caused by fields and act at a Condensing out of the cell distance such as magnetism, gravity and electrostatic Particles have Particles are able Particles move Plant cells can also have a regular to move past each. randomly in all Sap Vacuole: Space in cell to store sap Forces are measured in Newtons Liquids can flow, Cell Wall: Provides structure to the cell pattern and directions. Fill the Forces can be represented by arrows. The size of the Chloroplasts: Site of photosynthesis vibrate in taking the shape space available and arrow represents the amount of force and the direction position. Fixed of the bottom of a can be compressed. shows which way it is acting. Specialised cell examples shape and containr. Fixed No fixed shape or Balanced forces: When all the forces on an object are Red blood cells: Carry oxygen volume volume volume balanced, then the object will carry on at the same Root hair cells: absorb water in plants speed, or stay still if it is not moving. Sex cells (sperm and egg): contain Unbalanced forces will cause a change in speed or half the genetic information for a new life direction. E: Energy F: Ecology D: Atoms and elements An atom is the smallest particle of an element that can Energy can be described as being in different 'stores' and has the unit Joules. Energy cannot be created or exist. They are made of protons and neutrons in a nucleus,

- with electrons orbiting.
- An element is made of only one type of atom
- A compound is two or more elements chemically joined together
- A mixture is two or more elements or compounds that are not joined and can be separated by physical processes like filtering.

Solutions

A solution is made when a solute is dissolved in a solvent. For example: Salty water is a solution of salt (solute) and water (solvent

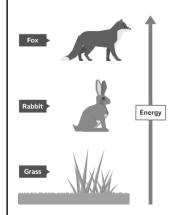
Separating substances

- Chromatography is the separation of colours in a substance using a solvent
- Filtration uses filters to separate solids from liquids
- Distillation can separate liquids with different boiling points

destroyed, but it can be transferred from one energy store

to other energy store. Energy stores include thermal, chemical, kinetic,

- electrical potential, elastic potential, gravitational potential and nuclear
- The four main types of energy transfer are mechanical, electrical, heating and radiation
- · Whenever energy is transferred some energy is dissipated.
- Conduction, convection and thermal radiation are ways of describing thermal energy transfers. Thermal energy always goes from the hotter area to the cooler.
- Conduction is thermal energy transferred in solids by particles vibrating
- Convection is thermal energy transferred in liquids and gases caused by less dense fluids rising and creating currents
- Infra red radiation is thermal energy transferred by waves.



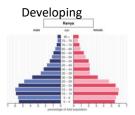
- Food chains and webs have producers and consumers. They show how energy is transferred in living things.
- Producer: Usually plants that produce their own food by photosynthesis
- Consumer: Animal that eats a producer or other animals
- Herbivore: animal that only eats producers(plants)
- Predator: Animal that eats other animals
- Prey: Animal that is eaten

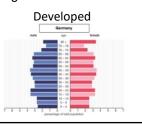
A: Population distribution: **B:** Population growth: **C:** The Demographic Transition Model (DTM) Kev terms: Kev terms: The DTM shows what happens to a country's birth rate, Sparsely Populated: Places with few people per km sq. Birth rates (BR): births per 1000. death rate and population overtime. There are 5 stages: Densely populated: Places with many people per km Death rates (DR): deaths per 1000. Infant mortality: number of babies that die before their Population density: The number of people per km sq. first birthday per 1000. Global population distribution: Global population growth: The world is unevenly distributed • World population is rapidly increasing. The explosion Western Europe is a densely populated area. started in 1950 and is predicted to peak by 2100. North of the Arctic Circle it is sparsely populated. 1: High BR & DR, so a small population. BR's are higher than DR's, causing a natural increase. There are human and physical reasons for population 2: Medicines and hygiene improve, DR falls, BR remains Overpopulation: high, rapid population growth distribution. Means too many people in a country for the resources 3: DR continues to fall, BR starts to fall. Contraception available. **Dense Sparse** females begin to attend school/work. Population growing Consequences, include: starvation, diseases like slowly. Good water supply Steep slopes (physical) cholera from dirty water, pressure on services and 4: BR & DR are low, growth stable, population is high, (physical) schools, pressure on housing leading to more shanty e.a. UK. settlements. Jobs available (human) Lack of transport links 5: BR could fall below the DR - population decline e.g. (human) Japan. D: Population structure (population pyramids): E: Population structure changes as a country F: Ageing populations (UK): develops

- Population structure: % of people in each age range, grouped into male and female.
- Population pyramids show population structure. There are three groups on a population pyramid: Economically active, Young dependents, Elderly dependents

Features of population pyramids:

- Developing countries: wide base high birth rate, narrow top - lower life expectancy. Stage 3 DTM.
- Developed countries: narrow base low birth rate, wide top - long life expectancy. Stage 4 DTM.





As a country develops the top of the pyramid gets wider due to increased life expectancy.

Life expectancy – The average age you are expected to live to in a country.

Factors that cause this are:

- · Better healthcare
- Improved standards of living
- Education

As a country develops the base of the pyramid gets narrower due to decreasing birth rates:

Factors which cause this are:

- Education
- Access to contraception and family planning
- Growth of materialism

The UK population is ageing, (many elderly dependents). The main reasons for this are...

- Better health care increasing life expectancy.
- Better diet so less heart attacks and diseases.
- · Fitness: the elderly are looking after themselves more

Titiless: the clacity are looking after themselves more						
Negatives	Positives					
Increased waiting times (NHS)	Disposable cash - increased employment opportunities.					
Treating illness (tax use)	Seasonal areas of employment remain busy, providing tax.					
State pensions (expensive)	Free grandchild care means less childcare costs.					

A: What is History: Key Words	B: What is History: Source skills	C: Migration: Key dates
Cause: Studying the reason for why something has happened. Consequence: A result of an event. Judgement: Studying both sides of a debate to reach an overall conclusion Significance: Something of great importance Change: To become different, to transform over time. Continuity: When things continue to stay the same over time Historical Interpretations = Studying how and why people look at different events in history in different ways Chronology: The order of events, earliest to latest Artefact: An historical object Bias: one sided opinion/fact BCE: Before the Common Era (Before Christ was born) CE: Common Era (after birth of Christ)	Source analysis: To study and break down a piece of evidence (source) looking at the content of the source Context: evidence to back up the source Validity of a source of evidence: Is the source factually correct Reliability of a source of evidence: Can the information in the source of evidence be trusted Source evaluation: How valuable is the source based on the provenance of the source Provenance: What is the origin, nature and purpose of a source of evidence Sources of evidence: Written, oral or physical objects or accounts that reveal information about the past Primary/ Contemporary sources: Evidence produced at the time of the event Secondary Evidence: Evidence produced after the event	800,000 BCE: The first humans arrive in the British Isles. They were probably hunter-gatherers, 500 BCE: Arrival of the Celts from Europe. 43-410 CE: The Romans arrive, defeat the Celts and rule England for hundreds of years 450 CE: Arrival of Angles and Saxons in England from Denmark and northern Germany. 800 CE: First Viking raids begin. In 1016, a Viking, Canute, defeats the Saxons and becomes king of England. 1066 CE: The Normans conquer England under William, Duke of Normandy. The first Jews arrive from Europe. 1290 CE: Jews are expelled from Britain. They are not permitted to return until 1656.
D: Migration Key dates and key words	E: Medieval World Key Dates	F: Medieval World Key People and Words
1572 CE: St Bartholomew's Day massacre: Huguenots (French Protestants) arriving in Britain. 1620 CE: The Mayflower (a ship) arrives in the 'New World' with Puritan settlers from England. 1845-52 CE: The Irish Potato Famine leads to widespread migration of Irish families to the UK. 1948 CE: SS Empire Windrush arrives from the West Indies with people hoping to work in Britain. Migration: The movement of people to and from a place Indigenous people: The original inhabitants. Economic migrant: To move for financial reasons Asylum seeker: To seek refuge from persecution Discrimination: To be persecuted for your race/ culture/ beliefs/ gender/ politics	1066: The Battle of Hastings and the Norman Conquest 1085: The Domesday Book is completed 1095: The First Crusade is decreed by the Pope 1170: Thomas Becket, The Archbishop of Canterbury is murdered. 1215: The Magna Carta is signed 1314 The battle of Bannockburn is fought in Scotland 1348: The Black Death comes to Britain 1381: The Peasants revolt 1415: Henry V defeated the French at Agincourt 1485: Henry Tudor defeated Richard III at the Battle of Bosworth	William Duke of Normandy: Known as William the Conqueror Feudal System: hierarchical system that separated society Domesday Book: A list of all the properties,land and resources in England in 1085 Crusade: 'Holy War' Pope Urban II: head of the Catholic Church (Pope Urban lead the first crusade Christendom: Christian World Knights: Warrior/soldiers Archbishop: senior member of the Church in England Henry II: The English King who had Becket murdered King John: the King that was forced to sign the Magna Carta Magna Carta: the Great Charter that King John was forced to sign to keep his barons happy Barons: Important and powerful members of society

A: Origins of Abrahamic Faith	B: Origins of Abrahamic Faith	C: Origins of Abrahamic Faith
Genesis: First book of the Jewish and Christian scriptures. Adam and Eve: According to Genesis, they were the first human beings created by God. Noah: The hero of the Biblical flood story. The Flood: God's decision to return the Earth to it's pre-creation state of watery chaos, and then remake it.	Abraham (Ibrahim): A core prophet in Judaism, Christianity and Islam. Covenant: Conditional promises made by humanity to God. Sacrifice: An act of slaughtering an animal or person surrendering a possession as an offering to a deity. Isaac: Abrahams son who went on to be the ancestor of the Jewish people. Ishmael-Abrahams son who went on to be the ancestor of the Muslim people. Mecca: Holy city for Muslims established by Ibrahim and Ishmael. Moses: The Hebrew prophet who led the Israelites out of Egypt and delivered the Law during their years of wandering in the wilderness.	Day of Atonement: A religious practice described in Leviticus to remove the sins of the community. Jesus: First-century Jewish teacher who Christians believe to be the Son of God. Pharisees: An ancient Jewish group, distinguished by strict observance of the traditional and written law. Crucifixion: An ancient form of execution in which a person was nailed or bound to a cross. Salvation: Saving from sin and its consequences, believed by Christians to be brought about by faith in Jesus.
D: Philosophy of Religion	E: Philosophy of Religion	F: Philosophy of Religion
Philosophy is the study of the fundamental nature of knowledge, reality and existence Omnipotent: classical belief that God is all-powerful Omniscient: classical belief that God is all-knowing Omnibenevolent classical belief that God is all-loving Transcendent: God is outside the universe. Theists: People who believe that God exists. Agnostics: People who argue that we can never know with certainty if God exists or not. Atheists: People who believe that God does not exist.	William Paley wrote an argument for the existence of God called the Design Argument. -complexity and purpose prove the existence of God. David Hume argues the Design argument is flawed because the universe is nothing like a watch. The cosmological argument is used by Thomas Aquinas to prove the existence of Godeverything has a First Cause.	Bertrand Russell argued that the universe does not need to have a First Cause. The Problem of evil: The argument that the existence of evil undermines belief in an omnipotent and omnibenevolent God Theodicy: An argument which defends God against the problem of evil. Religious Experience: An experience which has a religious meaning for the person who experienced it-examples conversion/prayer/mysticism.

French

Look Say Cover Write Correct

B: Mes passe-temps (My leisure activities)

A: Ma famille (My family)

Bonjour! **Je voudrais** me présenter. **Je m'appelle** Sophie et **j'ai** quatorze ans. Mon anniversaire **est** le premier janvier. **Je suis** française et je **viens** de Paris.

Maintenant j'ai les yeux marron et les cheveux longs et châtains mais quand j'étais plus jeune j'avais les yeux bleus et les cheveux blonds.

Je dirais que je suis assez timide, cependant je suis aussi très sportive Avant, j'étais plus paresseuse.

Dans ma famille il y a cinq personnes:

mes parents, mes deux sœurs et moi. **J'aime** ma mère: **elle est** sympa et belle,

Je m'entends bien avec mon père parce qu'il est marrant et il me fait rire.

Je ne m'entends pas bien avec ma sœur, qui s'appelle Anne.

car on doit tous porter les mêmes vêtements.

car **elle est** parfois méchante.

En ce moment, **je n'ai pas** d'animal mais dans le futur, **je voudrais** avoir un chien noir ou une souris blanche. En général, **j'adore** ma famille

bien que **je me dispute** avec ma sœur de temps en temps.

Hello! I would like to introduce myself.
I call myself (I'm called) Sophie and
I have (I am) fourteen years old.
My birthday is the first of January.
I am French and I come from Paris.

Now I **have** brown eyes and long, light brown hair

but when **I was** younger, **I had** blue eyes and blond hair.

I would say that I am quite shy, however I am also very sporty.

Before, I was more lazy.

In my family, **there are** five people: my parents, my two sisters and me.

I like my mum: she is kind and beautiful.

I get on well with my dad

because **he is** funny and **makes me** laugh.

I don't get on well with my sister, who calls herself (is called) Anne, because she is sometimes mean.

At the moment, I don't have a pet but in the future, I would like to have a black dog or a white mouse.

In general, I love my family

Although I argue with my sister from time to time.

Normalement, pendant mon temps libre

et parfois **nous faisons** de la danse.

J'adore jouer au foot

car je trouve ça très sociable.

je joue au foot avec ma sœur

De plus, la musique **c'est** ma passion!

Donc, **je joue** de la guitare tous les jours après le collège

tous les jours après le collège et **ie joue** du piano depuis cinq ans.

Je ne_fais jamais_de la gymnastique puisque c'est trop fatigant.
Quand j'étais plus jeune,

je jouais au basket cependant

je pense que c'était un peu ennuyeux.

Hier soir j'ai joué aux cartes avec mon père et j'ai gagné!

Ensuite, **nous avons regardé** la télé, mais ma sœur **a chanté** dans un concert!

Le weekend prochain, **je vais** faire de l'escalade avec mes copains ce qui **sera** un peu effrayant!

À l'avenir, je voudrais faire du surf car j'adore les sports aquatiques.

Usually, during my free time I play football with my sister

and sometimes we do dancing (dance).

I love to play (playing) football because I find it very sociable.

Furthermore, music **it's** my passion!

Therefore, **I play** the guitar every day after school

and **i** play (have been playing) the piano since (for) five years.

I never_do gymnastics since it's too tiring.

When I was younger,

I used to play basketball however

I think that it was a bit boring. Yesterday I (have) played cards

with my dad and I (have) won! Then, we (have) watched TV

but my sister (has) sang in a concert.

Next weekend, I'm going to do

rock climbing with my friends which **will be** a bit frightening!

In the future, **I would like** to do surfing because **I love** water sports.

C: Mon collège (My school)

Mon collège, qui **s'appelle** Launceston College, **est** un collège mixte à la campagne. Le lundi, **j'étudie** l'anglais, qui **est** ma matière préférée car **je pense** que **c'est** utile. Cependant je *n'aime pas_*du tout les maths parce que **je** *ne_suis pas_*bon en maths. L'année dernière, à l'école primaire, **j'ai étudié** l'art, ce qui **était** un peu ennuyeux. L'année prochaine, **je vais** étudier l'informatique car **ce sera** très intéressant. Pendant la pause déjeuner, **je mange** à la cantine avec mes amis. D'habitude, **je mange** du poulet avec des frites et **je bois** du coca, ce que **j'adore** mais **ce** *n'est pas* bon pour la santé. Dans mon collège, **on doit** porter un polo blanc, un pull bleu et un pantalon noir. **Je pense** que porter un uniforme **est** une bonne idée

My school, which is called Launceston College, is a mixed school in the countryside.

On Mondays, I study English which is my favourite subject because I think that it's useful.

However I don't_like maths at all because I am not_good at maths. Last year, at primary school, I studied art which was a bit boring.

Next year, **I am going** to study IT because **it will be** really interesting.

During lunchtime, **I eat** in the canteen with my friends.

Usually I eat chicken with chips and I drink some coke,

which **I love** but it **is**n't good for your health.

In my school, we/you have to wear a white polo, a blue jumper and black trousers.

I think that wearing a uniform is a good idea

because we must all wear the same clothes.

¡Hola! **Me gustaría** presentarme.

Mi cumpleaños es el uno de enero.

Soy español y vengo de Madrid.

Ahora **tengo** los ojos marrones y

tenía los ojos azules y el pelo rubio.

En mi familia, **hay** cinco personas:

mis padres, mis dos hermanas y yo.

porque es gracioso y me hace reír.

No me llevo bien con mi hermana,

En este momento, no tengo mascota

pero en el futuro, me gustaría tener

Generalmente me encanta mi familia

aunque me peleo con mi hermana

un perro negro o una serpiente amarilla.

dado que a veces es antipática.

sin embargo también soy muy deportista

Me gusta madre: es simpática y bonita.

Me Ilamo Enrique y

tengo catorce años.

el pelo largo y castaño

pero cuando era más joven.

Antes, **era** más perezoso.

Me llevo bien con mi padre

que se llama Anabella.

de vez en cuando.

Diría que soy bastante tímido,

B: Mis pasatiempos (My hobbies)

A: Mi familia (My family)

Hello! I would like to introduce myself.
I call myself (I'm called) Enrique and

I have (I am) fourteen years old.

My birthday **is** the first of January.

I am Spanish and I come from Madrid

Now I have brown eyes and

long, light brown hair

but when I was younger,

I had blue eyes and blond hair.

I would say that I am quite shy,

however **I am** also very sporty.

Before, I was more lazy.

In my family, there are five people:

my parents, my two sisters and me.

I like my mum: she is kind and beautiful.

lante my mum. She is kind and

I get on well with my dad

because **he is** funny and **makes me** laugh.

I don't get on well with my sister, who calls herself (is called) Ana.

given that she is cometimes man

given that she **is** sometimes mean.

At the moment, **I** don't_have a pet but in the future, **I** would like to have

a block dog or a valley anaka

a black dog or a yellow snake.

In general, I love my family

although I argue with my sister

from time to time.

Normalmente, durante mi tiempo libre **juego** al fútbol con mi hermana y a veces **bailamos**.

Me encanta jugar al fútbol porque **me parece** muy sociable.

¡Además, la música es mi pasión!

Por eso, **toco** la guitarra

todos los días después del colegio

y **toco** el piano desde hace cinco años.

Nunca **hago** gimnasia

ya que **es** demasiado agotadora

Cuando era más joven,

jugaba al baloncesto sin embargo

pienso que era un poco aburrido.

Ayer jugué a las cartas

con mi padre ¡y **gané**!

Luego, vimos la tele y toqué el piano,

pero mi hermana **cantó** en un concierto.

El fin de semana próximo, **voy a hacer** escalada con mis amigos

escalada con mis amigos

¡qué miedo!

En el futuro, **quisiera** practicar surf porque **me chiflan** los deportes acuáticos.

Usually, during my free time I play football with my sister and sometimes we dance.

I love to play (playing) football because I find it very sociable.

Furthermore, music is my passion!

Therefore, I play the guitar

every day after school

and **I play** (have been playing) the piano since (for) five years.

I never do gymnastics

since **it's** too tiring.

When I was younger,

I used to play basketball however

I think that it was a bit boring.

Yesterday I played cards

with my dad and I won!

Then, we watched TV and I played the

piano,

but my sister **sang** in a concert.

Next weekend, I'm going to do

rock climbing with my friends

How scary!

In the future, **I would like** to do surfing because **I love** water sports.

C: Mi colegio (My school)

Mi colegio **se llama** Launceston College y **es** un instituto mixto en el campo. **Me gusta** mucho mi insti porque **tengo** muchos amigos y **hay** mucho que hacer. Los lunes **estudio** inglés que **es** mi asignatura favorita porque **creo** que **es** útil sin embargo *no* **me gustan** nada las matemáticas dado que *no* **se me dan bien**. El año pasado, en la escuela primaria, **estudié** dibujo que **fue** un poco aburrido. El año que viene, **voy a estudia**r informática porque será bastante interesante. Durante la hora de comer, **como** en el comedor con mis compañeros. Generalmente, **almuerzo** pollo con patatas fritas y **bebo** una cocacola, que **me encanta** pero **no es** bueno para la salud.

En mi insti, **se debe** llevar un polo blanco, un jersey azul y unos pantalones negros. **Pienso** que llevar uniforme **es** una buena idea ya que todos **debemos** llevar la misma ropa.

Dur Usu whi In n

My school **is called** Launceston College and **it's** a mixed school in the countryside I really **like** my school because I **have** lots of friends and there are lots of things to do. On Mondays I **study** English which **is** my favourite subject because I **think** that **it's** useful

however **I** don't **like** maths at all because **I** am not good at it. Last year, at primary school, **I** studied art which was a bit boring.

Next year, I am going to study IT because it will be really interesting.

During lunchtime, I eat in the canteen with my friends.

Usually I eat (for lunch) chicken with chips and I drink some coke,

which I love but it isn't good for your health.

In my school, **we/you have to** wear a white polo, a blue jumper and some black trousers. I **think** that wearing a uniform **is** a good idea because **we must** all wear the same clothes.

Physical Education

A: Effective warm ups and the muscular system	B: The immediate effects of exercise	C: Importance of healthy lifestyle
What is a pulse raiser? Activities that gradually increase in intensity to increase the heart rate. Example: Jogging. What is mobilisation? Activities that take the joints through their range of movement starting with small movements and making these bigger as the warm-up progresses. Example: Arm Circles, What is the stretch phase? Activities to stretch the main muscles that will be used in the physical activity. Example: Dynamic - Walking lunges. Static deltoid stretch. What are the Major Muscles? Deltoids, biceps, triceps, erector spinae, abdominals, obliques, hip flexors, gluteus maximus, quadriceps, hamstrings, gastrocnemius	Increased Heart Rate The heart rate increases so that sufficient blood is taken to the working muscles to provide them with enough nutrients and oxygen. An increase in heart rate also allows for waste products to be removed. Increased Breathing Rate This gets more oxygen into the lungs and removes more carbon dioxide out of the lungs. Increased Body Temperature It's your body's way of regulating your core temperature, preventing you from overheating! Your muscles heat up as they expend energy during exertion.	What are the physical benefits? Improve fitness, body composition, sleep, immunity to help prevent illness, symptoms of long-term health conditions. What are the social benefits? Meet new people, make friends, have fun, develop leadership and team working skills, decrease loneliness. What are mental health benefits? Decrease stress levels, improve work life balance, decrease risk of depression, improve mood, increase self-confidence and self-esteem. A healthy active lifestyle is essential for physical and mental health and wellbeing. You should be physically active for at least 60 minutes a day.
D: Sedentary lifestyles health and wellbeing	E: Components of physical fitness	F: Components of skill-related fitness
Symptoms of long-term health conditions that can be reduced through exercise: Asthma - constriction of the bronchial airways and inflammation of the mucous membranes, which restrict the airways and limit breathing Coronary Heart Disease - the narrowing of coronary arteries reducing oxygenated blood flow to the cardiac muscle. Type 2 diabetes - is a common condition that causes the level of sugar (glucose) in the blood to become too high. What are the 5 key food groups that make up a healthy diet? A healthy diet: 5 food groups: Carbohydrates, Protein,	Aerobic endurance – the ability of the cardiorespiratory system to supply oxygen and nutrients to the muscles to sustain low to medium intensity work to delay fatigue. Muscular endurance – the ability of the muscular system to continue to contract at a light to moderate intensity to allow repetitive movements throughout a long event or game. Muscular strength – the maximum force that can be generated by a muscle or muscle group to improve forceful movements within an activity. Speed – distance divided by time to reduce time taken to move the body or a body part in an event or game. Flexibility – the range of motion possible at a joint to	Power – the product of speed and strength to allow for explosive movements in sport. Agility – the ability to change direction quickly to allow performers to outmanoeuvre an opponent. Reaction time – the time taken between a stimulus and the start of a response, useful in fast-paced sports to make quick decisions about what to do. Balance – the ability to maintain centre of mass over a base of support, useful to maintain positions in performance sports (static balance) or when on the move in any other sporting situation (dynamic balance).

Look

Cover

Write

Correct

A: Key words

any length.

Line: Line is the path left by a moving point for example a pencil or a brush. A line can be horizontal, vertical, diagonal or curved and of

Shape: A shape is an area enclosed by a line. It can consist of an outline or be shaded in. Shapes can be geometric or irregular.

Tone: This refers to the lightness or darkness of something. This could be a shade or light or dark or colour appears.

Pattern-A design that is created by repeating lines, shapes, tones or

B: Colour theory

Primary colours: Red, Yellow and Blue. These colours cannot be made but are used to make all other colours. **Secondary colours:** These are made by mixing 2 primary colours together.

Tertiary colours- These are made by mixing a primary colour with a secondary colour

Complementary colours: These colours are opposite each other on the colour wheel.

Tint- is when a colour is added to white.

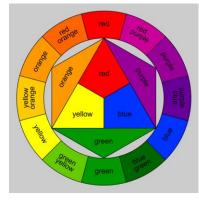
Shade -is when black is added to a colour **Harmonious colours** sit beside each other on the colour wheel.

C: Colour theory

Warm and cool colours

The twelve part colour wheel can be split in half into a section of six **warm** colours and a section of

six cool colours.



D: Grades of pencil

"H" pencils feature harder graphite. (The "H" stands for "hard".)

"B" pencils feature softer graphite. (The "B" stands for "black".)

The number found in front of the letter reveals just how soft or hard the pencil is. In other words, a "4H" pencil is harder than a "2H" pencil while a "4B" pencil is softer than a "2B" pencil

E: Wassily Kandinsky

Wassily **Kandinsky** was a Russian painter and art theorist. **Kandinsky** is generally credited as one of the pioneers of abstraction in western art,

Composition 8, 1923. Yellow-Red-Blue 1925





Influenced by Pablo Picasso, Vincent Van Gogh, Henri Matisse and Claude Monet.

F: Warm and cool colours

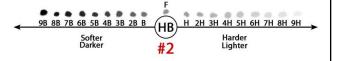
Warm Colours advance towards you. Andy Warhol's *Cow* (1966) was one of a series of brightly coloured prints used as a wallpaper design, Warhol deliberately used bright and unnaturally warm colours.





Cool colours recede into the background. Cool colours can be calming and relaxing but can also be used to signify sadness.

The Old Guitarist was painted by Picasso between 1903 and 1904, during his Blue Period



A: Mime **B:** Greek Theatre The four rules of mime Amphitheatre- An oval or circular, open-air performance space with tiered seating on all Objects must stay the same Size sides. Objects must stay the same Shape Greek Chorus-A company of actors who comment (by speaking or singing in unison) on Objects must stay the same Weight the action in a play. Objects must stay in the same **Position** in the space Cannon- a chorus of people repeating the same actions or speech slightly after one another. Why are these skills important in Mime? Unison- a group of performers doing the same thing at the. same time Facial expressions-a form of nonverbal signaling using the movement of face Myth- a classic or legendary story that usually focuses on a particular hero or event, and Gesture- any act or action which communicates a thought explains mysteries of nature, existence, or the universe with no true basis in fact. Physical theatre-A movement based style of theatre, using our bodies to create Mannerisms- a gesture, or way of conduct that is characteristic of an individual Slapstick-a type of physical comedy characterised by, absurd situations, and vigorous, narrative and create mood and atmosphere. Tragedy- a play in which the protagonist, usually a person of importance and usually violent action. outstanding personal qualities, falls to disaster through the combination of a personal Rule of three Physical comedy involving three instances where the first two are normal and the 3rd results in hilarity. E.g a banana skin on the floor two people see it and walk failing and circumstances with which he or she cannot deal. Comedy- The most famous playwrights of the genre poked fun at politicians, over it and the 3rd slips over philosophers, and fellow artists. Why is the rule of three used in slapstick? Satyr- short plays were performed between the acts of tragedies and made fun of the plight of the tragedy's characters. C: Romeo and Juliet D: Dramatic techniques Still Image-Participants create an image using their bodies – with no movement to Tragedy - A branch of drama that usually depicts the downfall and the reversal of fortune of a good person; suffering usually awaits many of the characters, especially the tragic portray meaning

hero.

Foreshadowing - A device in which an author suggests certain plot developments that might come later in the play.

Imagery - Use of language which is visually descriptive or symbolic.

Irony - The use of words where the meaning is contrary to what is expected to actually occur.

Dramatic monologue - A passage of speech in which one person is speaking to an audience or "thinking out loud".

Fate - The development of events outside an individuals' control, it is sometimes said to be determined by a supernatural power.

Patriarchy - A system of society whereby men have ultimate authority which they use to oppress women who are largely excluded from the male dominated society.

Thought tracking-when a character steps out of a scene to address the. audience about how they're feeling.

Hot seating-An actor sits in the hot-seat and is questioned in role to deepen understanding of character

Greek Chorus-A company of actors who comment (by speaking or singing in unison) on the action in a play.

Narration- the act of telling a story or giving account of something

Soundscaping- Using voice and body to create the sound of an environment.

Flashback-helps to flesh out a dramatic moment or create the beginnings of a story.

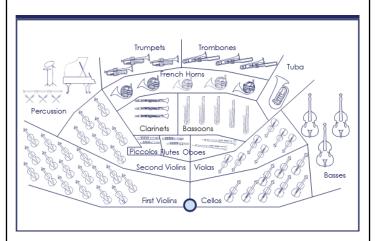
Physical theatre-A movement based style of theatre, using our bodies to create narrative and create mood and atmosphere.



Music

A: Musical context B: Terminology

Instruments of the orchestra



Tonality: The key of a piece **Pitch:** High/low sound of a note

Melody: The tune

Articulation: How a note is played.

Structure: The order of the sections in a piece of

music, the 'form'

Dynamics: The loudness of the music **Timbre:** the tone and quality of sound

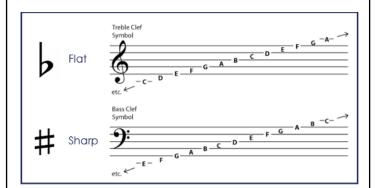
Tempo: speed of the music

Rhythm: length of notes and how they are

organised

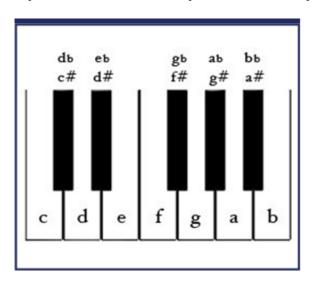
C: Theory

Finding the notes on the treble and bass staves



D: Keyboard layout

Can you draw and labela keyboard accurately?



E: Notes

Note Name	Note Symbol	Note Value
Semi-breve (whole note)	0	4 beats
Minim (½ note)		2 beats
Crotchet (½ note)		1/4 of a beat
Quaver (1/8 note)		1/2 of a beat
Pair of Quavers (1/8 note +1/8 note)	Л	2x 1/2 beats = 1
Semi-quaver (1/16 note)	1	1/4 of a beat

F: Vocabulary

Scale: Pitches moving by step in a sequence

Tone: A whole step i.e. C to D. **Semitone:** A half step i.e. C to C#.

Major: Bright' sound – Tone – tone pattern. **Minor**: 'Sad' sound – Tone – semitone pattern **Binary Form:** Two sections, 'A B' structure.

Ostinato: repeated rhythm

Chromatic: moving pitch by semitones
Diatonic: moving pitch by notes on a scale
Legato: Notes played smoothly and attached
Staccato: Notes played separated and detached

Accent: individual notes played louder

Pentatonic: 5 note scale Crescendo: getting louder Diminuendo: getting softer



Computer Science

A: Digital life - E-Safety				B: Computational knowledge and understanding - Binary							C: Computational knowledge and understanding - Encryption
What is E-Safety? E-Safety is the process or steps that need to be taken to stay safe online. What are the dangers of being online? Some of the possible dangers of being online are: 1. Strangers 2. Exposure to inappropriate / illegal content e.g. sexual materials, violence		What is binary? Binary is a 8-bit number system consisting of 1's and 0's which allows the computer to communicate with hardware. What you need to know? Use 8-bit binary to convert to and from binary using the following method to support.								A Caesar cipher, also known as Caesar shift, is one of the simplest and most widely known encryption techniques. It is a type of substitution cipher in which each letter in the plaintext is replaced by a letter some fixed number of positions down the alphabet. For example, with a left shift of 3, D would be replaced by A, E would become B, and so on. The method is named after Julius Caesar, who used it in his private correspondence.	
 Fraud Viruses 		1	.28	54	32	16	8	4	2	1	
5. Cyberbullying											Alphabet shifted by 3 spaces.
D: Graphics		E	E: Programming concepts							F: Programming with Micro:Bits	
Graphics are typically either a Bitmap or Vector image. There are some key differences between them which are listed below.		Within programming there are several key concepts you will encounter. These are:						ral key (concept	Code it: First we code our program. We can check it works by using the online Micro:Bit emulator.	
them which are listed below.			Algorithm A process of set rules to be followed in order						oe		Compile it: Then we compile the code.
		Boolean An expression used in computer						ed in co	mputer	This is where our code is converted into binary (zeros and ones) so that the Micro:bits CPU can	
Bitmap	Vector				programming that can result in either true or false				sult in		process the program.
Made up of pixels	Made up of lines and curves		Code Program instructions					ons		Flash it - Finally, we transfer the compiled program onto the device.	
Will pixelate when made bigger or smaller	Can be resized without losing quality	Loop Repeats a specific sequence of programmed instruction					nce of	Flashing is where the code is stored on the Micro:bit's memory chip, ready to be executed (run)			
Take up more memory	Takes up less memory	Operators Symbols used to represent actions (< > =)			nt actio	Code it Compile it Flash it					
	1	1	Variable A value which can be changed			nged					



Design and Technology

A: Food and Nutrition	B: Textiles: Cup-cosy and Phone stand
Yeast: Single celled microorganisms. It reacts to heat and causes the bread to rise by converting fermentable sugars in the dough into Carbon dioxide & ethanol. Enzymic browning is an oxidation reaction that takes place in some foods, mostly fruit and vegetables, causing the food to turn brown Good Hygiene Wash your hands Tie your hair back. Clean your utensils. Clean the surface. Use the correct chopping board. Wear an apron. Take off rings, watches and jewellery.	Smart Materials Thermochromic inks are those that change colour in response to changes in temperature. (Thermometer). Photochromic materials change colour with light. Hydrochronic change colour when immersed in water. Phosphorescence is a process whereby energy from the sun is absorbed by a 'material' and it is released slowly over a long time, in the form of light.
C: Product Design: Pewter Keyring and Wood work	D: Product Design: Pod storage
Redwood (Softwood) - Is a relatively cheap wood used in the building trade and for furniture. It is pale in colour, quite easy to cut and shape, and machines relatively well. Oak (Hardwood) - This is an expensive material and is used for making quality, expensive furniture. Dense that takes many years to grow. CAD- Computer Aided Design –2D Design Program. CAM- Computer Aided Manufacture. Pewter is heated & the temperature rises, the pewter begins to melt and quite quickly forms a molten liquid.	Thermosetting Plastics Once 'set' these plastics cannot be reheated to soften, shape and mould. The molecules of these plastics are cross linked in three dimensions and this is why they cannot be reshaped or recycled. The bond between the molecules is very strong. Thermoplastics These plastics can be re-heated and shaped in various ways. They become mouldable after reheating as they do not undergo significant chemical change. Reheating and shaping can be repeated. The bond between the molecules become weaker when reheated, allowing reshaping. These types of plastics can be recycled. Press forming Definition: Heating & then compressing a material using a mould and a downward force, changing the shape of the material to that of the mould.