

At South Hill, we have created 'Knowledge Organisers' to help pupils and parents to know what the children will be learning in each of our Foundation subjects. These contain essential vocabulary and facts for each topic.

Please see 'Knowledge Organisers' attached for Year 6 for the Spring term, which will also be in pupil's books and on working walls in school.



YEAR 6 SCIENCE - EVOLUTION AND INHERITANCE

KNOWLEDGE ORGANISER



 What have we learnt in this topic before and what we will learn this year?

 In Year 4 we learnt in our topic:

 • recognise that living things can be grouped in a variety of ways

 • explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment

 • recognise that environments can change and that this can sometimes pose dangers to living things.

In Year 6 we will learn:

- recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
- recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
- identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

EVOLUTION AND INHERITANCE

The theory of evolution by natural selection (first formuated in Darwin's book "On the origin of Species" in 1859) is the process by which organisms change over time as a result of changes in inheritable physical or behavioural traits.

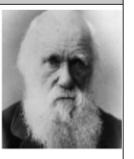


Inheritance refers to the characteristic traits that are genetically passed to offspring from their parents e.g. hair colour, eye colour, height etc. Darwin refers to this as natural selection when the strongest traits survive over generations.



FOCUS SCIENTIST - CHARLES DARWIN - EVOLUTION

Charles Robert Darwin (1809-1882) transformed the way we understand the natural world with ideas that, in his day, were nothing short of revolutionary. He and his fellow pioneers in the field of biology gave us insight into the fantastic diversity of life on Earth and its origins, including our own as a species. To this day, his theory of evolution by natural selection is accepted by the scientific community as the best evidence-based explanation for the diversity and complexity of life on Earth. The theory proposes that the 'fittest' individual organisms - those with the characteristics best suited to their environment - are more likely to survive and reproduce. They pass on these desirable characteristics to their offspring. Gradually these features may become more common in a population, so species change over time. If the changes are great enough they could produce a new species altogether.



ADAPTATION

Living things are adapted to their habitats. This means that they have special features that help them to survive.

An African elephant, for example, lives in a hot habitat and has very large ears that it flaps to keep cool.

A polar bear, on the other hand, lives in a cold habitat and has thick fur to keep warm. It's not just animals that are adapted to their environment, plants are too. A cactus is well adapted for survival in the desert. They have long roots to collect water from a large area and a stem that can store water for a long period of time.



The animals and plants in one habitat are **suited** to live there and may not be able to survive in other habitats. When a habitat changes, the animals and plants that live there are affected.

FOSSILS

How are fossils formed and what do they tell us about animals and plants that used to inhabit the earth?

Fossils are the impressions of the remains of prehistoric animals or plants embedded in rock and presrved in petrified form. Animals change over time and adapt to the surroundings in which they live.



Darwin observed that there were many forms of finches that had different beak sizes and shapes. Once he considered the food sources of each finch, he noted the reason for the adaptations.

Consider: are all adaptations good? What is the impact of human intervention on evolution?

What does this have on the wellbeing of the world and its inhabitants?



enc	ough they could produc	e a new species alt	together.			Key Vocabulary					
Ц	evolution inherit adaptation fossil		organism	organism naturalist geologist			ntology	offspring	generation		
l	origin	species	surroundings env		environment	inhabita	ants	survival	habitat	prehistorio	: impact

YEAR 6 SCIENCE - LIVING THINGS AND THEIR HABITATS KNOWLEDGE ORGANISER



What have we learnt in this topic before and what we will learn this year?

In Year 4 we learnt in our topic:

Recognise that living things can be grouped in a variety of ways.

Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. Recognise that environments can change and that this can sometimes pose dangers to living things.

In Year 5 we learnt in our topic:

Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals.

In Year 6 we will learn:

Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics.

CLASSIFICATION KEYS

Scientists, called taxonomists, sort and group living things according to their similarities and differences. This is called a Classification Key – a series of questions are used to classify a living thing.



FOCUS SCIENTIST - CAROLUS LINNAEUS - TAXONOMY

Carolus Linnaeus is the father of taxonomy, which is the

system of classifying and naming organisms.

One of his contributions was the development of a

hierarchal system of classification of nature. This

system includes eight taxa: domain, kingdom, phylum, class, order, family, genus and species.



PLANT KINGDOM AND MICRO ORGANISMS

There are over 275,000 species of plants and microorganisms. All plants are included in one Kingdom (platae) which is then broken down into smaller and smaller divsions based on several characteristics.

Microorganisms

Are invisible to the naked eye, a powerful microscope is needed to see them.

Are everywhere around us, inside us, in our food, in

our homes, in the air we breathe and the water we wash in.

Are mostly useful but some are harmful.

Have been around for 3.8 billion years.

They study of microorganisms is called microbiology. They are vital for life on Earth. They generate oxygen, are part of the carbon and nitrogen cycles and can survive the harshest conditions.



Phylum

Class

Order

Family

Genus

Species

Basic plant classification key

Plants

LINNAEAN SYSTEM OF CLASSIFICATION

Living organisms are classified into groups depending on their characteristics. This system was developed in the 18th century by Carl Linnaeus. The classification of species allows the subdivision of living organisms into smaller and more specialised groups.

The first division of living things in the classification system is to put them into one of five kingdoms.

The five kingdoms are:

- animals (all multicellular animals)
- plants (all green plants)
- fungi (moulds, mushrooms, yeast)
- protists (Amoeba, Chlorella and Plasmodium)
- prokaryotes (bacteria, blue-green algae)

Further divisions

Living things can then be ranked according to: phylum, class, order, family, genus species

Key Vocabulary

classification	organism	carbon	nitrogen	microbiology	taxonomy	species	mic	roorganism	$\left \right $
invertebrate	vertebrate	kingdom	phylum	class	order	family	genus	species	J

YEAR 6 GEOGRAPHY - BIOMES

this topic before and what we will learn this year? In Year 4, we completed our topic 'Where do we come from' by looking at the UK, as well as understanding the European Union and finding out about our own background and heritage.

What have we learnt in

In Year 5, we extended our knowledge through our topic 'Locating continents and oceans of the world '

In Year 6, we will further develop our aeoaraphy skills to describe the physical and human features of places around the world in relation to their biomes.

WHAT IS A BIOME? Biomes are areas of our planet with

similar climates, landscapes, animals and plants.

What lives in each biome depends on:

- how warm or cold it is
- how dry or wet it is
- how fertile the soil is

The animals in a biome depend upon plants for food. The plants in a biome often also depend upon the animals for spreading pollen and seeds so that new plants can grow. So both plants and animals rely on each other to stay alive.



Polar Desert Tundes Boreal forest Tropical Rainforest Decidares forest Granbard denarys) Deser. Chaparral

INSPIRATIONAL DAY

out



We will be making our own self-contained biome

A totally self-contained system of living

(plants and animals) and non-living (water and minerals) components. The goal is to balance it such that it can survive with no input other than energy (light). Is it possible? That is what we are trying to find



	Rainforest it can rain more than 250cm a year. It is difficult to grow crops. Lots of the world's wildlife can be found here.	Temperate forest Limited open spaces. weather limits when plants can grow. Transport is difficult.
A.	Desert It is often dangerously hot or cold. It is difficult to find water. There are limited food sources	Tundra Dangerously cold in winter. Poor nutrients in the soil. It rarely rains.
Course of	Savannah It rarely rains. It is difficult to find water. It is difficult to grow crops.	Tiaga Limited open spaces. Transport is difficult. Cold in winter.

KNOWLEDGE ORGANISER

LAYERS OF THE RAINFOREST

Emergent laver

These are the tallest trees on the rainforest. Some can grow up to 50m tall.

Canopy layer

The canopy is the thickest layer of the rainforest and is home to many birds and species of animals.

Understory layer

This layer has shorter, young trees and some shruhs and hushes

Undergrowth layer

This layer is home to many insects and larger animals. This layer receives little sunlight but a few smaller plants and shrubs can grow here.

Key Vocabulary

inergent Lave 125 tt (38m)

Caropy Layer

inderstory Lave

55 tt (29m)

.....

IStt (Se)

Biome latitude longitude hemisphere climate precipitation biodiversity tundra taiga temperate forest equator desert savannah rainforest deforestation climate change eco system

Year 6 Geography - Spring 2

YEAR 6 GEOGRAPHY - AFRICA

KNOWLEDGE ORGANISER



this topic before and what we will learn this year? In Year 4, through our topic 'Where do we come from' we looked at the UK, as well as understanding the European Union and

What have we learnt in

finding out about our own background and heritaae.

In Year 5, we extended this knowledge through our topic 'Locatina continents and oceans of the world.'

In Year 6, we will further develop our skills and knowledge through our study of Africa.

Kenva is located in east Africa:

- Population of 44 million.
- The capital city is Nairobi. Mombasa, situated in the coast, is one of
- Kenya's largest cities.
- The Tana river is the longest in Kenya.
- Mount Kenya is the highest mountain (5200m).
- Kenva's coastline is on the Indian Ocean. Swahili and English are the official languages

Maasai People

Maasai people traditionally live in mud huts made from mud, sticks, grass and cow dung.

Many Maasai are farmers and own large herds of cows, goats and sheep.

The Maasai people love music and dance.

They often sing and the men perform a special jumping dance.

WHERE IN THE WORLD IS AFRICA?

Africa is the second largest continent on Earth. It has a land size of 30.37 million km². It is connected to Asia by the Middle East. Africa is bordered by the Atlantic Ocean to the west and the Indian Ocean in the east. Africa has 54 countries. Africa covers 6% of Earth's total surface area. With 1.3 billion people, it accounts for about 16% of the world's human population. Algeria is the largest country in Africa. This country is among the ten largest countries in the world.

Lagos in Nigeria is the largest city in Africa. With more than 22 million inhabitants, Lagos is also one of the biggest metropolitan cities in the world and is estimated to become the world's largest city by 2100 with more than 100 million inhabitants!



WHERE IS KENYA?

GEOGRAPHICAL FEATURES OF AFRICA

..... SAHARA

Africa's major accaraphical features include the Nile River, Sahara Desert, Great Rift Valley, Mount Kilimanjaro and the Serengeti.

It is surrounded by the Atlantic Ocean and the Indian Ocean.

Africa is home to nine of the world's deserts:

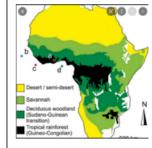
- Sahara Desert.
- Kalahari Desert
- Karoo Desert
- Danakil Desert
- Chalbi Desert
- Namib Desert
- Guban Desert
- Nyiri Desert.

BIOMES OF AFRICA

What biomes are found in Africa?

The Savannah Biome is the largest Biome in southern Africa, occupying 46% of its area. and over one- third the area of South Africa.

Across the Equator the tropical rainforest is found in Africa.



Over one-third of the African continent is covered by desert, from the Mediterranean to South Africa and the Indian to the Atlantic oceans. The deserts in Africa are home to some of the most extreme landscapes and stark conditions on Earth, as well as some of the most beautiful.

The Sahara is the largest desert in Africa, and the largest hot desert in the world - with summer temperatures reaching 122 °F (50 °C) - and stretching across 12 North African countries. The desert was created around 7 million vears ago.

Key Vocabulary

Africa continent latitude eauator precipitation biodiversitv desert

lonaitude savanna

KENMA

Nairobi

tropic of Cancer climate change

tropic of Capricorn weather

hemisphere climate

climate native

Year 6 ART – Mark making and illustrations

KNOWLEDGE ORGANISER

What have we learnt before in Art and what we will learn next?

In Year 3, we used mark making to sketch our Stone age cave animals.

In Year 4, in our watercolour topic, we used sketching to show facial expressions and body language. We used marks and lines to create texture and reflections.

In Year 5, we used our mark making skills to create mood and texture when drawing our 'Dragon eyes'.

In Year 6, we will continue to develop our mark making skills to draw our own creatures based on The Spiderwick Chronicles which are imaginative and communicate emotion.



ARTIST- VINCENT VAN GOGH

Van Gogh was a '<u>Post-Impressionist</u>' painter. Post impressionism focuses on line, colour and emotion.

Between 1881 and 1890, van Gogh painted nearly 900 pictures but he only ever sold one or two!

He began by painting peasants in dark colours but then started painting with bright colours. He is most famous for paintings of sunflowers, 'Starry Night' and lots of 'Self-Portraits'.

ILLUSTRATIONS AND TEXTILES



Artists use illustrations to communicate emotions through their sketches which they do to try to show a sense of self and imagination. Artists use a variety of different tools to create drawings and illustrations.

Using a variety of textiles and mixed media will create emotions and bring the illustration to life.

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RSI

MARK MAKING

Mark making is a term used to describe the different lines, patterns, and textures we create in an artwork.

A number of different tools can be used to create different effects with your drawings, including erasers for removing marks and sponges for rubbing and smudging.

It is also important to consider a variety of surfaces to draw onto, creating interesting textures and backgrounds to drawings

ILLUSTRATOR - TONY DITERLIZZI

When he was 9 years old, DiTerlizzi wrote and illustrated a book 30 – 40 pages long about one of his favorite topics — bugs.

Tony creates detailed pencil drawings and then adds thin coats of gouache paint – like watercolour but thicker so you need to water it down.

As he drew the sketches, he wrote notes about the creatures, annotating his drawings to bring them to life with details such as how they moved and what they smelled like.



Key	Vocabulary
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hading	cross-hatch	do	ots	patchwork	waves	scribble	zigzag	circular	diagonal lines
design	technique	form	line	colour	texture	tone	composition	perspective	mood

YEAR 6 DT - POP UP BOOKS

What have we learnt before in DT and what we will learn next?

In Year 2, through our topic 'Who are the heroes?' we looked at moving pictures and created our own using levers sliders and wheels

In Year 3 we extended this knowledge through the implementation of using different levers and linkages.

In Year 6, we will continue to develop our skills with flexible and stiff materials through our 'Pop up books' topic where we will make mechanisms and structures.





Matthew Christian Reinhart (born September 21, 1971) is an American writer and illustrator of children's pop-up books and picture books. His most recent books include Frozen: a Pop-up Adventure and Lego Pop-up: A Journey to the Lego Universe. From before Matthew could remember, art always took

centre stage. Throughout his childhood, his sketchbook was always nearby. Being creative just felt right to him, whether just drawing pictures or crafting wild contraptions out of anything he could scavenge around the house. He loved reading and learning about nature, science and ancient history, but his school notebooks often had more drawings than actual notes!

MATTHEW CHRISTIAN REINHART

Despite studying medicine, Matthew decided to follow his dream and retrained as an industrial designer, focusing on designing toys. In a few years, he discovered his true callina: becomina a children's book author, illustrator and paper engineer.



A HISTORY OF POP UP BOOKS

Paper pop-ups are fascinating threedimensional books containing paper pieces that rise up or move when the book is opened and folded completely flat when the book is closed. Although now popularly used for children's books, it was not until the 18th century when pop-up books were used for children's literature. Historically, it was also used for a wider range of topics like philosophy, astronomy, geometry and medicine. One of the first movable books was recorded in Spain during the 13th century that was made by Ramon Liuli



for mystical philosophy. Today's pop-up books still continue to fascinate readers of all ages and cultures, some of the more notable titles are made by artists like Robert Crowther. Robert Sabuda, David Carter and Matthew Reinhart.

TECHNIQUES – STRUCTURES AND MECHANISMS

A structure is something that stands alone.

A mechanism is a system of parts working together.

slit angle fold The most elementary mechanism used for a single piece of paper is a slit. This is made by simply outfing and folding at certain angles so that portions of the paper will pop out when the folding angle is 90 degrees. Pop up (tent, box, v, step folds) The pop-up element is attached to facing pages and unfolds from the center of the page when the book is open; it collapses into itself when the book is closed.

Flaps additional pieces of paper added to a book by either gluing or folding.

up/down, left or right to

make an object move -



composed of several

Pulley

Rotator



Levers Ariaid bar that moves around a pivot. slider Moving in one direction -

revolving, affixed circles each annotating an idea. The circles are cut out and fastened

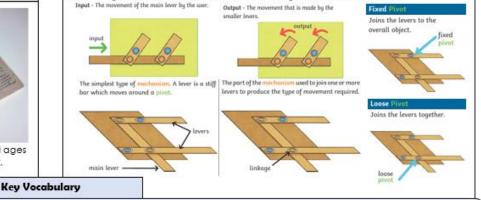
together so that they could rotate upon each other as hebeen

MECHANISMS - SLIDERS, LEVERS AND LINKAGES

plane, car...

Sliders move in one direction - up/down or side to side. A lever is a rigid bar that moves around a pivot.

A linkage is a bar joining one or more levers to produce the type of movement required. The term 'linkage' is also used to describe lever and linkage mechanism as a whole.



material	join	levers	sliders	spacers	mechanism	structure	input	output	linkage	cut	fold	unfold
	fixed pivo	ot loo	ose pivot	rotary	pull mechanism	n internal	lift	hing	ge spri	ing	linear	

KNOWLEDGE ORGANISER

Year 6 – Gymnastics Unit 2

Knowledge Organiser

Prior Learning

Demonstrated accuracy, consistency, and clarity of movement. Arranged own apparatus to enhance work and vary compositional ideas. Experience flight on and off high apparatus.

Unit Focus

Perform increasingly complex sequences. Combine own ideas with others to build sequences. Compose and practise actions and relate to music. Show a desire to improve competency across a broad range of gymnastics actions.

We are learning...

- to perform a 10-element sequence using both floor and apparatus.
- to perform with equipment and respond creatively to music.
- to create judging criteria and assess performances against it.
- to create and perform interesting patterns as part of a group.
- to select and apply the appropriate walk and presentation to start a sequence.
- to perform a 10-element sequence with a 1-minute time limit.

Key Questions

- 1. Why is it a challenge to adapt your sequence to fit in with a timescale?
- 2. Which were your favourite elements to perform?
- What is stimuli?
- 4. Can you suggest any different compositional ideas that may be used?

Equipment

Vocabulary

Mats, hoops, cones, wall bars, beanbags, low apparatus, action cards, tabletops, box tops, stopwatch, music player. Half lever, box splits, bridge, broad jump, splits, dish, arch, bounce, competency, complex, stimuli, mirror, match.

Concepts

Stimulus is something that causes a reaction, especially interest, excitement or energy added into a gymnastics sequence such as music or objects including ribbons and balls.

Assessment Overview

Head - Compose a sequence that will achieve the highest score against the criteria. Hand - Perform increasingly complex sequences.

Heart - Work independently and in small groups to make up sequences to perform to an audience.



📲 📖 Year 6 - Hockey

Knowledge Organiser

Prior Learning

Developed passing, dribbling and shooting skills. Can confidently select and apply basic skills in a game situation. Learnt ways of marking and defending.

Unit Focus

Choose and implement a range of strategies and tactics. Combine and perform more complex skills at great speed. Recognise and describe good individual and team performances.

We are learning...

- 1. To shoot under pressure from close range. 4. To use a banana run to force an
- To perform long corner routines as part of a team.
- To use goal-side marking to prevent an attacker from getting closer to the goal.
- To use a banana run to force an oncoming attacker out wide.
- To use a hit-out to successfully restart a game
- Indian dribble and to play competitively using new skills.

Key Questions

- 1. What set plays did you use in a game, and were they successful?
- 2. When would you use Indian Dribble in a game situation?
- 3. What strategies did your team use to defend?

Equipment

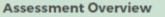
Vocabulary

Sticks, a range of balls (hard, foam or quick sticks balls), cones, goals, bibs, stopwatch.

Power, distance, perform, consistent, fair play, tackle, covering, supporting.

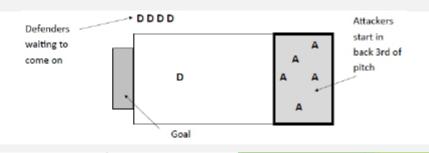
Rules

- Implement a long corner for any ball unintentionally hit off the back line by the defence.
- If the attacking team hit the ball of the back line, take a hit out.



Head – Choose and implement a range of strategies to attack and defend. Hand – Shoot from close range.

Heart - Use and apply boundary rules such as corners, self pass and sideline.



Year 6 - Cricket

Knowledge Organiser

Prior Learning

Linked a range of skills and use in combination. Collaborated with a team to choose, use and adapt rules in games. Recognised how some aspects of fitness apply to cricket, e.g., power, flexibility and cardiovascular endurance.

Unit Focus

Apply cricket rules in a variety of styles of games. Attempt a small range of recognised shots. Use a range of tactics for attacking and defending in the role of bowler, batter and fielder.

We are learning...

- To create pressure on a batter by using a ring field.
- 2. To track and catch a high ball consistently.
- To perform a short-pitched bowl to get a batter to hit the ball in the air.
- To work in a pair to restrict runs scored when fielding.
- 5. To play an on-drive.
- 6. To set an attacking field.

Key Questions

- What is an attacking field?
- 2. What are the reasons for working in pairs to retrieve the long ball?
- 3. What is the benefit of bowling the short ball?

Equipment

Vocabulary

A range of balls, a range of bats and striking equipment, stumps, button cones, batting cones, hoops.

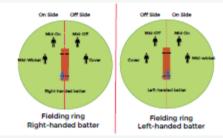
Urgency, acquire, high ball, tracking, short delivery, long balls, on drive, off side, on side, slip, short leg, silly point, innings, retires, attack

Concept

 The cricket field is split into two imaginary halves, the on side and the off side. These sides change depending on whether the batter is left or right-handed.

Assessment Overview

Head – Apply with consistency standard rules of (modified) games. Hand – Attempt to track and catch high balls in isolation and gameplay. Heart - Work as a pair to field long balls.



🐃 📖 Year 6 - Football

Knowledge Organiser

Prior Learning

Played effectively in a variety of positions and formations. Related a greater number of attacking and defensive tactics to gameplay. Attempted more skills when performing movements at speed.

Unit Focus

Choose and implement a range of strategies to attack and defend. Perform a wider range of more complex skills. Recognise and describe good performances. Suggest, plan and lead simple drills for given skills.

We are learning...

- To set up a shooting opportunity for a teammate.
- To restrict an opponent's space by defending with my partner.
- To perform a penalty kick with power and accuracy.
- 4. To attack and shoot as a pair.

- To perform the role of cover defender to stop the opposition's attack.
- To use close control to keep possession of the ball under pressure.

Key Questions

- Compare week 6's performance to week 1. Can you think of a way you have improved individually and as a team?
- 2. What is the role of the covering defender?
- 3. Which part of your foot is best to kick with for accuracy?

Equipment

Vocabulary

Footballs, cones, goals, bibs, stopwatch.

Fair play, tackle, covering, supporting, strategy, set up, assist, deny, set play, covering, defender.

Rules

- · Penalty awarded for a professional foul when defending.
- Free pass if a foul is committed outside of the penalty area.

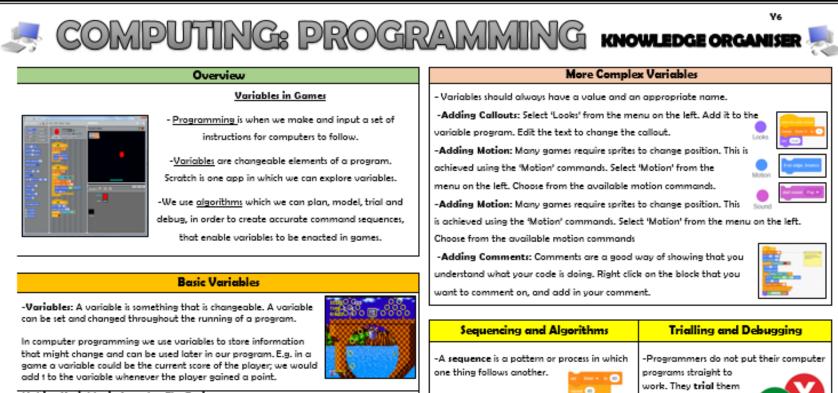
Assessment Overview

Head – Devise a drill that develops a particular skill.

- Hand Apply correct body position when closing down a player to defend.
- Heart Collaborate with a partner to implement simple defensive techniques.



Year 6 Computing - Spring 1



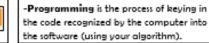
Making Variables in Scratch – The Basics

-Select 'Variables' (dark orange circle) from the menu on the left. Either choose from the available variables or 'Make A Variable.' -Select 'Events' (light orange circle) from the menu on the left. Choose what needs to happen for the variable to change. E.g. "When this sprite clicked' or 'when space key pressed."





-Select 'Variables' again from the menu on the left. Choose what will happen when the event happens, e.g. 'change score by 1' (to add a point) or 'change score by -1' to remove a point.



involving multiple output devices (e.g. LEDs

-We design algorithms (sets

performing a task) to help

us program sequences

of instructions for

and motors).



first to find any errors: -Sequence errors: An



instruction in the sequence is wrong or in the wrong place.

-Keying errors: Typing in the wrong code. Logical errors: Mistakes in plan/thinking.

 If your algorithm does not work correctly the first time, remember to debug it.

			Impo	ortant Vocabula	ry				
Programming	Variable	Scratch	Events	Code	LED	Algorithm	Motor	Modify	Debugging

Year 6 Computing - Spring 2

🧢 Compu	TING: P	ROGR		ING KNO	WLEDGE OR			
	Overview			Using Micro:	bit Software			
- <u>Micros</u> actions be Prog -Microsbil a -Output progra	Using Micro:bits <u>mming</u> is when we make a set computers to follow. <u>bits</u> are small computers that p ased on programs written on co rams are then downloaded to ts have a range of <u>input sensors</u> is input triggers for different cos causes on Micro:bits (e.g. LED mmed to display words, pictures ssies of Micro:bits	erform different omputer software. the micro:bit. <u>s</u> that can be used des to run.) displays) can be	 -Software Interface: Just like other programming software, the micro:bit interface has programming blocks and a programming area. The emulator gives a simulation for testing code. -Basic Blocks: Can be used to do things like display images, text and pictures on the LED display. They should be placed into the 'on start' or 'forever' blocks. -Input Blocks: Enables the user to create 'triggers' using different parts of the microibit device, e.g. 'on button _ pressed.' -Logic Blocks: Allow conditions to be set. E.g. 'lf, then, else' blocks allow us to set actions for when certain conditions are met (true), and alternative actions for when they are not met (false). -Math Blocks: Includes numbers and sums in programs. The 'pick random number' block can allow different codes to run dependent on the random number generated. 					
 What is a Microbit's A microbit's a conversion our computers to microbits to run. Microbit's have an LED light display, b input/output features that we can pro- 	which can then be transferred outtons, sensors and many	a b		ng to Micro:bit		Sensing Inputs		
The Parts of a Micro:bit - Front 1. A and B buttons: make things happen. 2. LED Display: shows words, pictures, numbers. 3. Light Sensor: Measures the light that falls onto the micro:bit. 4. Input and Output Pins: Connects the micro:bit to other devices.	11. <u>Battery Socket</u> – to power	novement o communicate with ce to	 Microdbit can be connected to the computer using a USB cable. 1. Select 'download' 2. Locate the file in the downloads folder. 3. Copy the file from the MICROBIT drive. 4. Run the program on the microdbit. -Microdbit will only run code that has been downloaded. If code is changed in the editor, it will need to be downloaded again in order to run on the microdbit. 		codes to run depending upon what is detected by different sensors.			
Programming Micro:bit	LED	Important V Sensor Randon	-	Accelerometer	Sequence Emul	lator Motion		