

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 1 for the Spring term which will also be in pupil's books and on working walls in school.



# YEAR 1 SCIENCE, - ANIMALS INCLUDING HUMANS

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

In Reception, under the topic of 'Growing', the children will have learnt about:

- Male/Female animals and their young
- A frog's life cycle
- Caterpillars and Butterflies
- African Animals
- Farm Animals
- Staying healthy
- Labelling the main body parts

# In Year 1, we learnt in our topic: Animals including humans - (Common animals, parts and diets)

- to identify and compare the Animals, including humans (Common animals, parts and diets)
- to identify and name a variety of common animals that are carnivores, herbivores and omnivores
- to identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
- to describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)
- to identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.

# In Year 2, we will learn in our topic: Animals including humans - (Growth, survival and health)

- to notice that animals, including humans, have offspring which grow into adults
- to find out about and describe the basic needs of animals, including humans, for survival (water, food and air)
- to describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

# **VERTEBRATES AND INVERTEBRATES**

omnivore



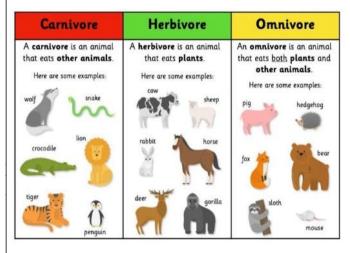
Vertebrates are animals that have a backbone and invertebrates are animals that do not have a backdone. Humans are vertebrates because we have a backbone.

Key Vocabulary

**KNOWLEDGE** 

All **animals** have to eat **food to live and grow**. Some animals **eat only plants**. They are called **herbivores**. Some animals **eat only meat**. They are called **carnivores**. Some **animals eat both plants and meat**. They are called **omnivores**.

HERBIVORE, CARNIVORE AND OMNIVORE



#### We can group animals by looking at their features such as whether they have scales or · have scales, not fur. whether they lav eggs. Here they have dry skin. • Usually lay eggs, Sometimes live young are 5 groups of animal types: MAMMAIS · Cold-blooded. · give birth to live your have hair or fu breathe underwater Using gills. · mammal mothers nurse have scales and fins. their young with milk. Warm-blooded · Cold-blooded. ·lay eggs. (sometimes none) webbed feet have feathers & wing moist , smooth skin (no hair or fur) · Warm-blooded

## PARTS OF THE BODY

The human body comes in lots of different shapes and sizes. But most are made up of the **same parts**, which do the **same jobs**. We all have a **skeleton**. The bones in your

skeleton help you to stay standing up and let you move around. Here are some of our other **body** 

parts:



vertebrate invertebrate

backbone carnivore

hermivore amphibians birds

mammals fish

reptiles body body parts

# Year 1 History - Spring 1

# Year 1 History - The victorians

# KNOWLEDGE ORGANISER



What knowledge have we learnt before, what we will learn this year and what will come after?

In EVFS, the children will start to understand the concept of the "post" and "now" and will look at;

- Lives of people around us
- Similarities and differences between things in the post and now
- Understand the post through settings, characters and storytelling

In Year 1, the children will begin by further developing their understanding of their own recent history. Moving forward in time from Bonfirenight, they will learn facts about what life was like in the Victorian Era.

 Events beyond living memore: The Victorian 1837 to 1901 AD

In Year2, the children will learn how signinificant people from history have affected our lives fro the better. They will remain in the Victorian Era to discover Florence Nightingale and then take a small step backwards to learn about Mary Seocole.

 Significant individuals: Florence Nightinggale (1820-1910) and Mary Seacole (1805-1881) AD

#### ENRICHING THE CURRICULUM

To bring this topic to life, the children will take part in a "Victorian day" where they will dress up in Victorian style clothes and experience what it was like to in the Victorian classroom.

#### **Chimney Sweep**



Chimney boys would often work with an adult Chimney Sweep. It would be child who had to do all the hard work though because only they could fit up a chimney. The Chimney sweep would use a long brush to clean the soot from inside the chimneys. Being a Chimney Sweep was a dirty and dangerous job. Children would often get ill from breathing in all sorts of soot and injure themselves from falling.

# Queen Victoria and her traditions



Queen Victoria reigned England for many years. She was a very noble lady who wore elegant clothing. When her husband Prince Albert unexpectedly died in 1861, the monarch very publicly expressed her sorrow by wearing black every day for four decades until her own death. Our current monarch is King Charles.



# Chronological order

#### Toys in the Victorian Era



**Old** toys were usually made from materials such as wood, metal, glass and fabric. Many old toys moved by clockwork or 'wind-up'. This was usually a small metal key, which attached to the toy and you turned many times. This would make small wheels (or gears) inside the toy turn and make the toy move. In the past toys would have been hand made.



Tovs Today

Many **new** toys are made from plastic. Plastic is much cheaper to use. It can be melted and poured into moulds so many toys can be made at the same time. This makes the toys much quicker to make too. Machines infactories mostly make toys now. They are a lot cheaper to manufacturer.

Fewer toys are handmade today for children.

# **Oliver Twist**

The story of Oliver Twist was about a young orphan set in the **past**. His life in the workhouse was lonely and sad. Oliver became an apprentice for an undertaker but ran away after he gets into a fight with another apprentice. When Oliver arrived in London, he met Jack, also known as the Artful Dodger, who offered him a place to stay. Further adventures then begin.



#### Key Vocabulary

Queen Victoria - Prince Albert - royaly - past - old – long time ago - chimney sweep - workhouse - slate - chalk - abacus - bell desk - cane - blackboard -dunces hat - skipping rope - spinning top - peg doll - marbles - wooden blocks - yo-yo – elegant – noble - King Charles III - traditions - reigns – Legacy - Evidence – Chronology – Hierarchy - Monarchy

# Year 1 Geography - Spring 2

# YEAR 1 GEOGRAPHY - HOT AND COLD PLACES

# KNOWLEDGE ORGANISER



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

In Early Years the children begin to recognise the important processes and changes in the natural world around them which include looking at the seasons.

In Year 1, we will build upon this previous knowledge and can explain the features of hot and cold place. We consider the difference between people who live in a hot and cold place and what they might wear in these countries. With the assistance of a alobe we will learn about the equator and north and south pole.



The features of a cold place are that there will be little sunlight everyday.. The winters will be particularly cold and there is lots of snow and ice. Not many people live in cold places.

The main features of a hot and cold place



The features of a hot place are that there will be lots more sunlight during the day. The summers will be particularly hot. The desert is a hot place and there is little vegetation. There is little rainfall. Lots more people live in warm places.

# HOOK LESSONS



For our Geography hooks, the children will be unpacking a suitcase and sorting the clothes for either a hot or cold place. Additionally, we will be using a globe and an atlas to establish where different countries are located. There will be discussions around where children have been on holiday and if it was a hot or cold place and that countries features.

Key Vocabulary

# People who live in hot or cold places and the clothing they

#### could wear

People who live in cold place would wear warm/thick clothing to keep warm such as woolen hats, jumpers, scarves and gloves. They will wear thick socks and boots. They will eat hot food and have hot drinks to keep warm.

People who live in hot place will need to protect their skins from the sun and will need to wear a hat or keep their heads covered and will wear light cotton clothing and sandals to stay cool They will need to drink plenty of water to keep hydrated.







## THE EQUATOR AND THE NORTH/SOUTH POLE

#### World Weather.

This is an image of a globe. The red line which runs across the middle of it is called the **Equator**.

Countries that are closer to the Equator have the sun directly above them for most of the year, so they stay hot all year round.





#### North and South

**Pele**. The North Pole is at the top of the world. The South Pole is at the bottom of the world. Both are very cold, icy places. The Poles have six months of daylight

						Rey vocabu	lary							
	Equator	North Pole	South Pole	Weather Cha	art Storm	FrostSnow	Cloud	Snow	lce	Wind	Spring	Summer	Autumn	Winter
l	Hydrated	Sunlight	Desert	Vegetation	Rainfall	Protection	Populati	on						

# YEAR 1 DT — MAKING A SOCK PUPPET

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

In EYFS, we explored the building blocks of our DT curriculum through creative play in areas such as junk modelling.

In Year 1, we will make a sock puppet with a moving mouth and we will decorate it's features by selecting different types of materials and joining these with glue.

In Year 2, we will extend our learning in Textiles by making Tie dye T-shirts using string and elastic bands to tie different patterns into the fabric.

## TYPES OF PUPPETS

Puppets have been used for hundreds of years to tell stories and entertain people. A puppet is model that is controlled by a person. It can be controlled by rods, sticks, strings or the hands and fingers of a puppeteer.



# Sock puppet



Finger puppet

# JOINING MATERIALS USING GLUE



Glue can be a useful product to help us join two materials together. We can use Pritt stick or PVA glue, depending on the thickness of the material.



### ADDING DESIGN FEATURES

**KNOWLEDGE ORGANISER** 

Puppets are **colourful** and use a variety of different **materials**, such as ribbon, felt, googly eyes and foam, to create **body parts** or design **features**.

Materials can be selected based on their **texture or** 

**colour** and can be cut to shape using **scissors** and then **glued** in place to create the characters features.

## **ADDING A MOVING MOUTH**

Many **puppets** are **controlled** by the **user's hand**. Puppets can have a **simple mouth mechanism** by glueing a **cardboard template** to the outside of the **sock**, with a **fold** 



in the middle of it, to create an opening mouth.

					Key Vocabı	ılary				
Puppet	puppeteer	hand pu	ippet fi	nger puppet	sock p	uppet	stick puppet	glue	Pritt stick	PVC glue
material	ribbon	felt	googley eye	s fluffy	soft	flat	colourful	scissors	cardboard	fold



# Year 1 ART -- water colour flowers

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

COLOUR MIXING

In EYFS, we will study different artists and create art inspired by their work. We will be introduced to colour mixing and through exploration will discover what colours we can make. In expressive arts and design, we will be creating by using and exploring a variety of materials, tools and techniques, experimenting with colour,

In Year I, we will develop our understanding of colour mixing further to create different shades. We will use these colour mixing stills when working with watercolours. We will also be introduced to observational drawing using sketching pencils. We will be working with clay, using different techniques to shape and mould shapes to create a flower.

design; texture; form and function;

In Year 2, we will continue to develop our colour mixing skills by making our own brown and adding white to colours to make different tints. We will also develop our pencil skills further, using patterns and texture in our sketching. We will also be developing our techniques with working with clay.

# As well as creating the secondary colours by mixing two primary colours together, artists can create different depths of colour by adjusting the amount of each colour.



#### OBSERVATIONAL DRAWING

Observational drawing is drawing what you see in front of you as realistically and as true to life as possible. It can be a flower, a person, a still life or whatever. When artists look at something with the intent of drawing it, they tend to look more carefully than usual seeing the shapes, patterns, perspective, colours, and shadows



## GEORGIA O'KEEFFE – ABSTRACT ART

KNOWLEDGE ORGANISER

Georgia O'Keeffe made flowers larger than life and she let the colours, shapes and lines flow from her imagination onto her abstract painting.



Georgia began experimenting with painting close up views of flowers. She used oil paints in vibrant, bold colours. Painting the flowers at such a close range makes the viewer see the object in a completely different way. Often the close up views only showed part of the flower.

#### WATERCOLOUR TECHNIQUES

Artists use different techniques for applying their water colour paint. The first is a wash which covers the canvass with water first before adding one or more <u>colours</u>. This is the 'wet on wet' technique. The second is a pattern in which the artist creates a repeating pattern with the brush strokes.

				Key Vocabulary				
primary	secondary	mixing	water wash	observational	sketching	real life	patterns	abstract
O'Keeffe	clay	modelling	pinching	slab rolling	brush strokes	pottery	tone	

# Year 1 PE - Spring 1

## **Prior Learning**

Experienced jumping (taking off and landing). Developed some concept of space and use of space. Developed confidence in fundamental movements.

## **Unit Focus**

Use simple gymnastics actions and shapes. Apply basic strength to gymnastic actions. Begin to carry apparatus. Recognise like actions and link them.

## We are learning...

- to perform 'like' actions in a sequence.
- to carry and set up apparatus safely.
- to perform shapes on large and small body parts.
- to take off and land and use shape in our jumps.
- to travel on our feet, showing good body tension.
- how we can create different levels in our performance.

## **Key Questions**

- What are 'like' actions?
- 2. Why is it important to have good body tension when rolling?
- 3. What is the difference between large and small body parts when performing shape?

# Equipment

## Vocabulary

Mats, hoops, cones, wall bars, bean bags, low apparatus, ropes. Balance, body tension, tensed, relaxed, shape, stretched, curled, carry, control, extension, fast, hang, high, jump, like, link, low, safety.

## Concept

Any shape is either performed on a large or small body part. Most shapes can be adapted to be performed in a different way taking it from a small to a large body part, e.g. a stretch shape from standing (feet, small body part) to laying on the tummy (large body part).

## Assessment Overview

Head - Use words such as rolling, travelling, shape, jump, and take-off.

Hand – Recognise like actions and link them together.

Heart - Value other's efforts when they perform; watch and listen.



# Year 1 PE - Spring 2

# Year 1 - Gym Unit 2

## **Knowledge Organiser**

#### **Prior Learning**

Used simple gymnastics actions and shapes. Applied basic strength to gymnastic actions. Begun to carry apparatus. Recognised like actions and link them.

#### Unit Focus

To show a range of recognised point balances. To introduce turn, twist, rock, and roll and to link these. To perform unison simple canon and unison techniques.

#### We are learning...

- 1. to move on, off and over apparatus and 4. to perform actions at the same use the 'Magic Chair' landing.
- 2. to rock on different parts of our body 5. to perform actions one person and rock using shape.
- 3. to perform specific point balances such 6. to turn and jump and guarter and as 'h' and 'y' balances.
- time as others (unison)
- after the other (canon).

- **Key Questions**
- Why is a magic chair landing necessary as we jump from higher levels?
- Why do we call them h and y balances?
- 3. Can you think of any other activities when people perform in unison?

#### Equipment

Vocabulary

half turn.

Mats, hoops, cones, bean bags, low apparatus, floor spots.

#### Balance, body tension, tensed, rock, roll, link, guarter, half, turn, spin, twist, unison, canon

#### Skill

Magic chair landing

- Land on two feet and bend your knees to absorb impact (as if sitting on an imaginary chair).
- Keep your head up, looking forward, not at the floor.
- Arms forward about shoulder height.
- Straighten your legs and finish in a good position with arms extended above the head.

#### Assessment Overview

Head - Decide which supporting concepts and actions to add to their sequence. Hand - Show spinning and rocking in isolation and short sequences. Heart - Move on, off and over an object with confidence.



# Year 1 Computing - Spring 1



COMPUTING: PROGRAMMING KNOWLEDGE ORGANISER



#### **Buttons and Programs**

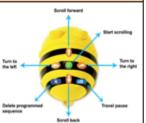
Buttons: Bee-bots have buttons on the top. They each make the Beebot do something different (see picture).

The arrows move the Bee-bot in different directions.

-The GO button makes the Bee-bot start its program. (on some models, it also pauses the Beebot in-program).

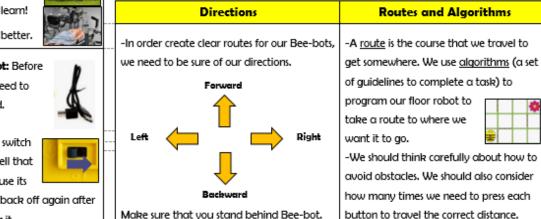
-Programs: A program is a series of instructions. We can program the Bee-bot by pressing the direction buttons (in order) that we want it to move in, followed by GO.

-The X button makes the Bee-bot delete the program and make a new program. Switching the Bee-bot off and on again also deletes the program.



Υı





#### Important Vocabulary

Programmed

Algorithm

Robot

Button

Direction

Forward

Backward

Left

Route

Right



-Robots: Robots are machines that we can program to do human jobs.

**Robots and Floor Robots** 

Overview

Moving a Robot

Programming is when we make a set of instructions for

computers to follow.

<u>Robots</u> are one type of machine that can follow

programs. Floor robots include Bee-bots and Blue-bots.

 Floor robots have buttons which help us to direct them. We can use algorithms (a set of guidelines to perform a

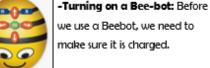
task) to program floor robots along routes.

-Robots help us to do things, for example to help us clean, mow and learn!

Robots in factories make things, and in hospitals they help make us better.

-Bee-bots: Bee-bots are a type of floor robot. -We can programme Beebots to move around.

Bee-bots should only be used on the floor, and not tables etc. They can be damaged if they fall from high surfaces. (Other floor robots, e.g. Blue-bot, can also be used).



make sure it is charged. To turn it on, using the switch

underneath. You can tell that the Bee-bot is on because its

eyes light up. Switch it back off again after you have finished using it.

# Year 1 Computing - Spring 2

Overview

The Basics of Scratch Ir.

-What is Scratch Jr? Scratch is a website/ app that lets us code our

-Sprites: Scratch Jr. uses characters called sprites. The main sprite is a

-Home: Clicking on the house takes you 'home' to your project screen.

Animations in Scratch Jr.

- Programming is when we make a set of instructions for

computers to follow.

-Scratch ir. is a program that we can use in order to code

our own stories and animations. It involves sprites

(characters on the screen).

-We use algorithms (a set of instructions to perform a

task) to program the sprite to do different things.



0

cat called Scratch.

**Getting Started** 

-These (right) are the

programming area

perform on the stage.

(right). Clicking the block in

the area makes the sprite

them into the

.

own stories, games and animations.

-The + (right) starts a new project.

COMPUTING: PROGRAMMING KNOWLEDGE ORGANISER

#### Sequencing

-Sequences: - A sequence is a pattern or process in which one thing follows another. In Scratch Jr. we can stack blocks together side by side in order to create programs made up of sequences.

-Deleting Blocks: Blocks can be removed from programs by dragging them from the programming area back into the blocks palette.

-Repeating Blocks: For something to happen more than once, we can change the number underneath the block.

-Running the Code: Run your animation by tapping the full screen icon, and then the green flag.

#### **Algorithms and Programming**

instructions for performing a task. Designing an algorithm can help us to make the Start = 1 1 0 Fud Start =\* 18 End

ē 10 🚹

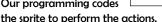
\*\* 🔾 🕬

P 🔀 🗈 👐 🕒

sprite do the things that we want it to do.

-Program we move t the position our alaorit Our programming codes

i <b>ming</b> is when	
he blocks into	
n (based on	~
hm design).	000 0 0 0 0 0 0 0 0 0



Block



Y1

#### Debugging

-Sometimes, things don't work exactly how we want them to the first time. This may be a problem with our algorithm, or we could have made a mistake in our programming.

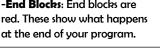


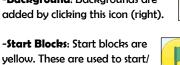
-If the animation does not work correctly the first time, remember to **debug** it. This means finding and fixing the problems.





-Start Blocks: Start blocks are yellow. These are used to start/ programming blocks. We drag run programs. -End Blocks: End blocks are 

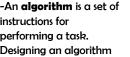






-Background: Backgrounds are

Important Vocabulary





#### Programming

Scratch Jr.

Sprite

Home

Command

Stage

Background

adA

Algorithm