

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 4 for the autumn term, which will also be in pupil's books and on working walls in school.



#### YEAR 2 SCIENCE - Plants (Seeds and Bulbs) knowledge organiser What have we learnt in this topic before, what What a plant needs to grow and stay healthy SEEDS AND BULBS we will learn this year and what will we learn next? In Year 1, we learnt in our topic: Plants (Wild and garden). Things Plants Need In order to grow identify and name a variety of common wild Most plants grow out and to be and garden plants, including deciduous and of seeds and bulbs. healthy, a plant evergreen trees needs: identify and describe the basic structure of a variety of common flowering plants, including Water: A trees Seeds grow roots and shoots. Roots and shoots then In Year 2, Spring term, we will learn: Plants (seeds grow leaves above ground. Many plants make flowers, plant and bulbs). which turn into fruits. Flowers and fruits make their own would observe and describe how seeds and bulbs seeds. We call this a life cycle. need water grow into mature plants Space Germination to help it find out and describe how plants need water. to Grou grow. light and a suitable temperature to grow and Nutrients: Plants need water to suck up nutrients from the soil. stay healthy In Year 3, we will develop this further and learn Nutrients are the good things in soil which will help a plant grow and about: Plants (Parts of plant and growth) be healthy Seed Dispersal Roots identify and describe the functions of different Light: A plant needs light to help provide food for the plant. A plant parts of flowering plants: roots, stem/trunk, would need light to help it be healthy. leaves and flowers Suitable temperature: Plants can grow in many different places, but a Bean explore the requirements of plants for life and sunny window sill would be best. On a sunny window sill, the plant Plant growth (air, light, water, nutrients from soil, will get the warmth and light it needs. In time, it will grow big and and room to grow) and how they vary from strong! The plant won't get the warmth and light it needs in a cold, plant to plant • investigate the way in which water is dark fridge. It won't grow big and strong. transported within plants explore the part that flowers play in the life ٠ cycle of flowering plants, including pollination, The Right Temperature seed formation and seed dispersal Flowering Leaves Plants need the right temperature to stay healthy too! The right temperature is different for different types of plants Focus scientist - David Bellamy - Botanist David James Bellamy (18 January 1933 – 11 December 2019) was an English author, broadcaster, environmental campaigner and botanist.

A botanist is someone who studies plants. Bellamy wrote, appeared in or presented hundreds of television programmes on

botany, ecology, environmentalism and other issues. His television series included: Bellamy on Botany, Bellamy's Britain, Bellamy's Europe and Bellamy's Backyard Safari.

root

trunk

seed flower

fruit

leaf

stem



warmth

**Key Vocabulary** 

water

sun

light

eds need the right temperature to start turning in to a plant. Plant

warmer

warmest

o need the right temperature to be able to turn sunlight into fo

warm

# YEAR 2 SCIENCE - LIVING THINGS AND THEIR HABITATS KNOWLEDGE ORGANISER



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

In Year 1, we learnt in our topic: 'Plants' to:

 identify and name a variety of common wild and garden plantsthat live in their gardens

and the school grounds

In Year 2 Spring Term, in our topic 'Living things and their habitats' we will learn to:

- explore and compare the differences between things that are living, dead, and things that have never been alive
- . identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other
- . identify and name a variety of plants and animals in their habitats, including micro-habitats
- describe how animals obtain . their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.

In Year 4, we will develop this further and learn, in our topic 'Living things and their habitats', to:

- 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.

## TYPES OF HABITAT



Our habitat is where we live. We live in an urban habitat in England.

#### Urban Habitats



Flowering plants such as nettles, daisies, dandelions and buttercups grow in parks, gardens and hedges. Many insects, slugs and snails live among the plants.

Some animals, such as squirrels and garden birds, get their food from the trees and hedges that grow in cities. Other animals like foxes, pigeons and rats are able to live in cities because they get most of their food from the waste that people leave behind.

#### Woodland Habitats:

In a woodland habitat there are lots of trees that grow close together. Common trees that grow here include English oak, ash, beech, hawthorn and birch. The woodland provides a home for many minibeasts like worms, slugs and snails. It also provides a home for larger creatures, such foxes, badgers and squirrels.

#### Pond habitats:

A pond is a still body of fresh water. Some plants like water lilies, hornwort and duckweed live in the water. Other plants like irises and marsh marigolds grow in the

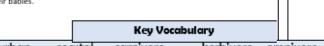
These plants provide food and shelter for worms, slugs, snails, and insects like damselflies, dragonflies, mayflies and water beetles. Amphibians like frogs, toads and newts eat the small creatures, and in turn, these are eaten by mammals like bats and water voles. Many birds live near the water, including ducks, moorhens and kingfishers.

#### Coastal Habitats:

These are places where the land meets the sea. Some of these habitats are sandy, some are marshy, and some are high, rocky cliffs. The plants here have adapted to grow in salty, windy conditions. These include samphire, juniper, sea kale, glasswort and marram grass. Many of the creatures

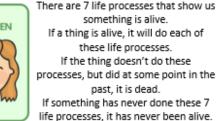
that live in coastal areas survive in rock pools left by the tides,

like barnacles, mussels, crabs and starfish. Wading birds such as oystercatchers, plovers and sandpipers feed on these creatures, while seabirds like seagulls, kittiwakes, gannets and skuas mainly eat fish from the sea. Dolphins, porpoises and even whales can be seen in the waters around the coast. Seals and otters spend most of their lives in the sea but come to the land to rest and care for their babies.



### LIVING/DEAD/NEVER ALIVE





## FOOD CHAINS

A food chain shows how each animal gets its food. Food chains are one of the ways that living things depend on each other to stay alive. The arrows in a food chain mean 'is eaten by'.



A berry is eaten by a mouse which is eaten by a snake which is eaten by and eagle.

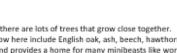


Grass is eaten by a cow which is eaten by a human.

Animals often get their food from plants, here are some different examples of food sources for animals:



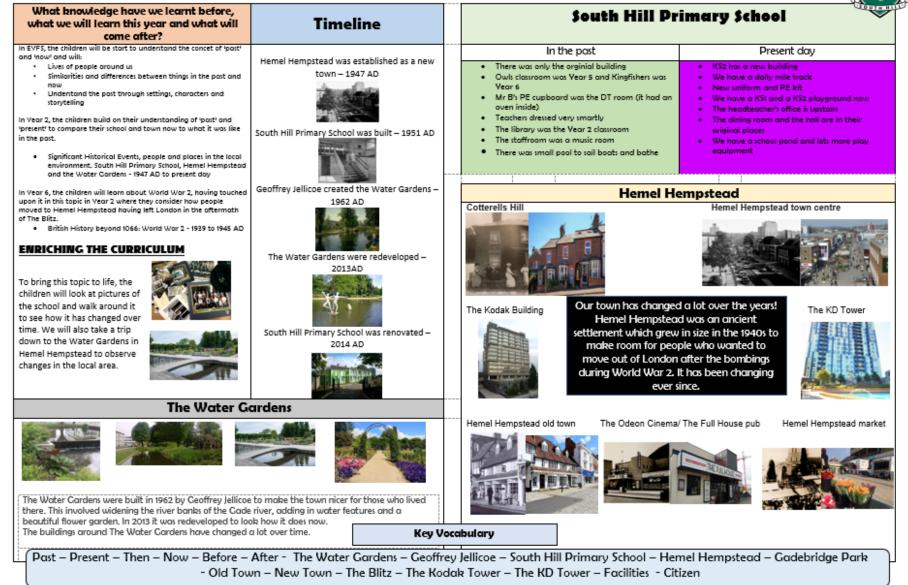
						Key V	Vocabula	ry							
Ч	habitat	pond	woodland	urban	coastal	carnivor	e ł	herbivore	omni	vore	living	dead	food chain	movement	$\neg$
l				respiration	sensi	tivity	growth	reprodu	uction	excre	etion	nutrition			



damp soil near the pond's edge.

# YEAR 2 HISTORY - CHANGES IN OUR LOCAL AREA KNOWLEDGE ORGANISER





## YEAR 2 GEOGRAPHY - A CONTRASTING LOCALITY WITHIN THE UK KNOWLEDGE ORGANISER



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

In Year 1, through our topic 'Where in the world do we live', we learnt about where we live and began to use atlases and maps to identify countries and Cities in the UK.

In Year 2 we will compare the town we live in, Hemel Hempstead, to a coastal village, West Wittering. We will look at aspects of human and physical geography and consider the impact of the weather and how we would travel from one location to the other

In Year 4, we will extend our knowledge through our topic 'Where do we come from' by looking at the UK as part of the European Union and finding out about our own background and heritage.



West Wittering is a village situated in the county of West Sussex, England, It lies near the mouth of Chichester Harbour. It is a coastal location in the south of England



Hemel Hempstead is a large

It is in England. It is near to

London, the capital city of

South East of England.

town in Hertfordshire in the UK.

England, Hernel Hempstead is

north of London but it is in the

## FIELDWORK/ INSPIRATIONAL DAY/ HOOK LESSON A DAY AT THE BEACH

West Wittering is a popular natural beach on the South coast of England. It is rated in the top ten beaches to visit within the UK due to its unspoilt natural beauty.

As part of our unit of study we will visit West Wittering, experiencing a day at the beach and identifying the geographical features of the landscape. We will consider the weather and seleact appropriately what we need to take with US.



### HEMEL HEMPSTEAD - OUR URBAN HOME



Hemel Hempstead is located on the River Gade, in the county of Hertfordshire, approximately 26 miles north-west of London and 7 miles west of St. Albans.



The town has a population of around 79,600. At the end of World War 2 Hemel was built as a "new Town" with new developments enveloping the original town on all sides. The original part of Hemel is still known as the "Old Town".



The town's good transport links and proximity to London have made it a popular residential base for commuters working in the capital



Key physical features of Hemel Hempstead include the moors. canal, rivers, parks, the shopping centre, the old town and the Magic roundabout.

## WEST WITTERING A RURAL COASTAL COMPARISON

West Wittering on the South coast has a large expanse of firm sand, ideal for a day at the beach and with the large amount of beach huts, café and lifeguard presence it is a popular tourist destination on a sunny day.



The population of West Wittering is about 2700 people. The village itself lies a little way inland and has a church of Norman origin, a couple of hotels, a camping site, a village school and a few small shops.

Key physical features are the beach, the salt marsh, the harbour and the church.



**Key Vocabulary** 

Great Bri	Great Britain		United Kingdom	city	town	village urban		rural coastal		North	South	Ч
seaside	East	West	location	facilities	salt marsh	n bok	oulation	en	nployment	shore	harbour	

## YEAR 2 ART - SELF PORTRAITS AND LEAF PAINTING

## KNOWLEDGE ORGANISER



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

In Year 1, we will develop our understanding of creating simple patterns in art and progress on to using out fruit and vegetables as printing blocks. We will learn the different printing techniques to create abstract art. We will then learn the flower pounding technique to make a botanical mandala on fabric.

In Year 2, we will continue to develop our printing skills by exploring pressing, rolling, rubbing and stamping. These skills will be used to create some beautiful leaf printings. We will also explore the different mark making tools and how patterns and textures influence our drawings.

In Year 4, in our drawing and painting topic, we will further develop our sketching skills to show facial expressions and body language. We will use marks and lines to create texture and reflections, as well as learning to mix our own colours (including skin tones).

### PRINT MAKING

Printmaking is an artistic process involving transferring images onto a surface, most often paper or fabric. Traditional printmaking techniques include woodcut, etching, engraving, and lithography, while modern artists have expanded available techniques to include screen printing.

Warhol used this printmaking technique to make artworks that used a repeated image from popular culture, often in different colours. He made pictures of soup cans and coke bottles. He made paintings of American celebrities such as Marilyn Monroe and Elvis Presley.



### LINKED ARTIST - ANDY WARHOL

Andy Warhol was part of the pop art movement. He was born Andrew Warhola in 1928 in Pennsylvania. His parents were from a part of Europe that is now part of Slovakia. They moved to New York in the 1920s.

His first job was illustrating adverts in fashion magazines. Now is he known as one of the most influential artists who ever lived!



After this job began using silk screen printmaking to make images as his art. This involves pushing ink through a screen to create an image. It can be used to make lots of copies of the same image

### SELF PORTRAITS USING PENCIL

Pencils have different grades determined by how much graphite they contain. The higher the number the thicker and darker the mark left on the paper is. Different grade pencils are used within a drawing to create different effects such as shades and tones,





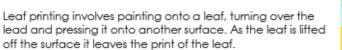
Charcoals and pastels are and effective medium used in drawing to create texture to a piece of artwork. They come in many forms and are easy to manipulate. The focus upon the amount of pressure used is what gives the range of textures they can produce,

A view finder can be used to help focus on a specific element of an object and not get distracted by what's around it. It enables close attention to be paid to the image that is being created.



#### LEAF PRINTING AND RUBBING

Leaf printing is a form of art that involves transferring leaves onto another surface through either printing or rubbing.







👖 Leaf rubbing involves placing a leaf onto a

hard surface putting a piece of paper over the leaf and rubbing a crayon, or pencil on the layered paper over the leaf to create the rubbing.

	to make lots of copies of the same image					Key Vocabular	У			
(	Andy Warhol	printmaking	ink	papart	rubbing	printing	grades	sketching	drawing char	coals
		pastels		texture	patterns	viewfinder	rollin	g stamping	mark making	

## YEAR 2 ART - TEXTILES

## 



What have we learnt before in Art and what we will learn next?	HISTORY OF TEXTILES	 PATCHWORK SEWING
In Year 2, through our topic 'Construction/Use of Materials' we designed and made our own emergency vehicles. In Year 2 through our topic of 'What makes the perfect place to live?' we will, design, and make our own picnic blanket to take and use for our school trip to the seaside. In Year 4, this knowledge will be extended when they design and make their own cross stitch keyring, as well as making their own bunting.	Textiles are flexible materials woven from fibres, which have been used by humans througout history for a number of purposes. One of the main purposes being clothing. Other purposes alongside clothing include sheets, towels, linen, carpets, rugs and a wide variety of other products. Many people enjoy textiles as a hobby and pass this skill onto family members.	 Patchwork means various pieces of cloth of different calour, and size, sewn together to form a covering.   Sewing is a detailed craft and skill. It involves the joining together of different textile fabrics using a needle and thread, either by hand or by a sewing machine to form a bigger piece of fabric.   To sew people can use a range of different sewing styles to produce strong joins as well as adding to the overall appearance and design. Thinking about the way a product looks is called 'aesthetics', and is highly important in textiles.   The running stitch is a quick and easy way to decorate a piece of fabric. When two layers of fabric together. This is by going in and out between the layers of fabric, creating a dotted line effect. This is a called a running stitch.   JOINING FABRIC USING GLUE
		 Another way to create a patchwork piece is by
It was during the Middle , beginning of the picnic ir enjoyable event outdoor and drink together. Ofter blanket to place on the g be sat on and provide a Typically the blanket wou thick piece of fabric that	n Britain. A picnic is an rs where people eat n people would have a ground or grass so it can layer of comfort. Jud be a large square or rectangular piece of	using fabric glue to join fabrics together and possibly create hems. To create a finished picnic blanket, final decorative pieces can be added. To do this, pieces of fabric can be cut out and instead of using the running stitch method, another way of joining the pieces of fabric is by gluing. Holding one of the fabric pieces up and gluing the underneath will <u>enabled</u> this piece of fabric to then be stuck on to the other fabric piece. Allowing different materials to be used. Gluing is one of the most common ways to join fabric/ materials together.

th	ick piece	of fabric that	is soft an	d waterprod	of.	.g	Gluing	; is one c	of the most	common way	ys to join fabri	c/ materials togethe	er.
						Key Voo							
text	tiles	material	join	decorate	lette	r needle	thread		by hand	label	blanket	picnic	
	fabric	felt	design	criteria	appealing	y sewing	initials		grid	make	improve	template	J

# Year 2 DT - Summer 2

# YEAR 2 DT - PICNIC BLANKET





KNOWLEDGE ORGANISER What have we learnt before in SEWING HISTORY OF TEXTILES DT and what we will learn next? In Year 2, through our topic Textiles are flexible Sewing is a detailed craft and skill. It involves the joining together of 'Construction/Use of Materials' materials woven different textile fabrics using a needle and thread, either by hand or by a we designed and made our own from fibres , which sewing machine to form a bigger piece of fabric. emergency vehicles. have been used by humans To sew people can use a ranae of In Year 2 through our topic of different sewing styles to produce througout history 'What makes the perfect place strong joins as well as adding to for a number of to live?' we desian and make our the overall appearance and own picnic blanket to take and purposes. design. Thinking about the way a use for our school trip to the product looks is called seaside. One of the 'aesthetics', and is highly main purpses important in textiles. In Year 4, this knowledge will be being clothing. extended when they design and Other purposes A common type of sewing or stitch is called the running stitch. This is make their own cross stitch alongside the simplest stitch. It creates a dotted line effect. Remember to leave kevrina, as well as making their clothing a space from the previous stitch. own bunting. include sheets, towels, linen, carpets, In Year 5, this knowledge will be rugs and a wide variety of other extended through the topic **PROPERTIES OF A PICNIC BLANEKT** products. Many people enjoy textiles 'Electrical and Mechanical To ensure a picnic blanket can be used for many years and many times it as a hobby and pass this skill onto components' by incorporating. will need to have some important properties to make it reliable and family members. hydraulics and pneumatics. dependable. PICNIC BLANKET The perfect picnic blanket must have a lightweight design, being It was during the Middle Ages that saw the beginning of the picnic in waterproof, transportable and Britain. A picnic is an enjoyable event outdoors where people eat being comfortable. While a and drink together. Often people would have a blanket to place on waterproof style is important to the around or grass so it can be sat on and make sure that not liquid soaks provide a layer of comfort. Typically the through the fabric, going for blanket would be a large square a lightweight design will also ensure it can be carried easily and folded away easily. A good picnic blanket will be comfortable to sit on and ideally or rectangular piece of thick piece of fabric soft to make the picnic experience enjoyable and fit for purpose. that is soft and waterproof. Key Vocabulary

(	textiles	material	join	decorate	letter	needle	thread	by hand	label	blanket	picnic	
	fabric	felt	design cr	riteria	appealing	sewing	initials	grid	make	improve	template	