SCIENCE

AT SHALFLEET AND YARMOUTH CHURCH OF ENGLAND PRIMARY SCHOOLS

NATIONAL CURRICULUM STATEMENT

Purpose of study

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

<u>Aims</u>

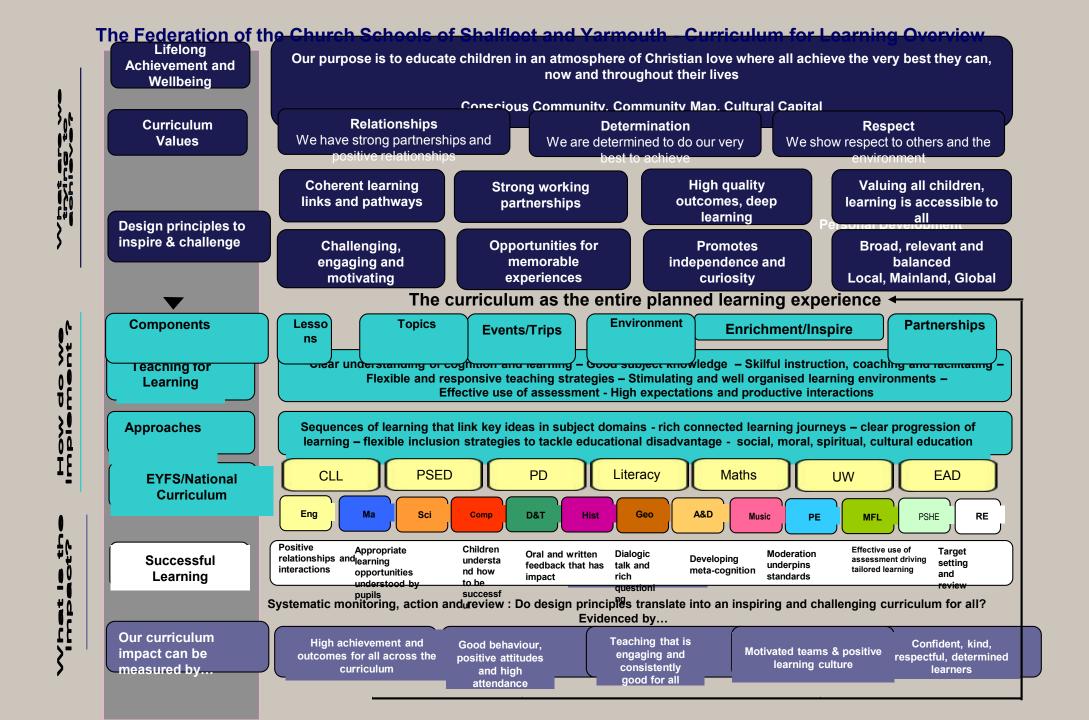
The national curriculum for science aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

OUR INTENT

By the time our children leave our school, our science provision will have encouraged them to develop a questioning mind about ways in which science influences everyday life. Our children will ask important questions about how things work and why things happen in a certain way. We aim to foster curiosity and excitement about the natural world in our children, as well as understanding that their skills in science can be used today and in the future. They will be able to understand the world they are growing up in and gain life skills to better access it; becoming adults who strive to seek solutions to problems and answers to life's questions.

We strive to promote a joy and excitement for learning and to approach unknown and unexplainable phenomenon with awe and wonder.





SCIENCE AT THE FEDERATION OF THE CHURCH SCHOOLS OF SHALFLEET AND YARMOUTH



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Federation Vision f Science – Intention Children By the time our child our school, our scien provision will have of our children an unde of the world through disciplines of biology chemistry and physic Through scientific en the children will have explored processes a relationships building eagemess and inquis surrounding natural phenomena.	n for dren leave offered erstanding n the Y, cs. nquiry, e and g sitiveness	Working sc questioning formulating performing concluding Biology – h animals, ev Chemistry – properties, states of m Physics – fo	g investigations, tests, recording, and evaluating abitats, living this olution, humans, - materials and tl uses of materials	ngs, , plants, heir s, rocks, ipace,	Animals (including huma describe basic needs for a nutrition, having muscles create food chains, descri drugs and lifestyle on hum Plants – identify, name an cycle, and requirements f Living things and their ha alive, dead and that have recognise environments of things into broad groups, Electricity – learn about of and conductors (LKS2) us Forces – focusing on the f resistance, friction, and for Materials – identify every compare suitability of ma	Content and Sequencing ns) - name common animals, of animals and importance of exe and skeletons for a purpose, k be changes to humans up to of nans, and how nutrients and v nd describe plants and trees ar or life (KS2) abitats – identify plants' and ar never been alive, create simple an change, describe reproduce give reasons for animal and pl common appliances, create simple forces created by magnets, att proces in mechanisms (UKS2) vday materials, describe and gr terials (KS1) materials can cha- a changes, dissolving materials	fraw parts of the human body rcise for humans (KS1) animal mow the human teeth, know old age, identify and name the vater are transported in human observe plant growth (KS1 himals' habitats and how they le food chains (KS1) living thir tion in plants and animals, low lant classification (KS2) hole circuits with lamps and s plain how a buzzer's volume a racting and repelling and the roup everyday materials, find nge state when heated or com	y, notice they have offsy is and humans needing the human digestive sy e circulatory system, the ans and animals (KS2)) Identify and describe y / suit them, explore diff ngs can be grouped, use ok at differences in life of witches, name parts of ind bulbs brightness car ir strength (LKS2) explai out how solid shapes c	the right stem, impact of exercise, olant functions, their life erences between things classification keys, cycles, classify living a circuit, find insulators be affected (UKS2) n gravity, water and air an be changed,
				Vis	ion for the Federation	Learning Principles in Sci	ience		85
Coherent Learning Links and Pathways:	Strong V Partners		High Quality Outcomes/i Learning:		Valuing All Children/Accessible Learning:	Challenging, Engaging and Motivating:	Opportunities for Memorable Experiences:	Promotes Independence and Curiosity:	Local, Mainland and Global:
Science work is underpinned by strong maths skills and report writing language skills.	rk is Children will be Children will be ed by able to perform encouraged to use hs skills scientific enquiry their scientific writing working together language fluently		to use ic ently itly to epts	All children have an opportunity to explore scientific processes at their level of understanding.	Children will be motivated through the use of practical investigations to bring the science to life in front of their eyes.	Engaging trips that build on scientific knowledge, encompassing a range of investigations.	Giving children ownership to explore scientific questions and natural phenomena that interests them.	Exploring different processes and concepts across local, mainland and global environments.	
Links with English a Maths	and		123	Progress	20 6		Support		Ś
Maths – measuremen fractions, percentage Literacy – report writ	es, four ope	erations, sha	nals,	Investig	scientific en	and evaluated in a depth ear group. shown to progress in	Everyone has access to Activities adapted in acc child may not have got previous year group. Th from using more visual	cordance to previous the background know is would be seen in a	assessment, where a riedge from a number of ways

PROGRESSION OF SKILLS

- 1. Knowledge
- 2. Skills
- 3. Vocabulary
- 4. Resources
- 5. Overview of coverage

SCIENCE	Links to EVFS	Key Stage 1		Lower Key Stage 2		Upper Key Stage 2	
		Year 1	Year 2	Year 3	Year 4	Year S	Year 6
Knowledge	 Knowing similarities and differences in relation to places, objects, materials and living things. Knowing features of their own immediate environment and how environments might vary from one another. To make observations of animals and plants, explaining why some things occur and talk about changes. 	 Plants To be able to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. To be able to identify and describe the basic structure of a variety of common flowering plants, including trees. Animals including humans To be able to identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals To be able to identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals To be able to identify and name a variety of common animals that are carnivores, herbivores and omnivores To be able to describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) To be able 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 Everyday Materials To be able to identify and name a variety of everyday materials, including pets) To be able to identify and name a variety of everyday material, including wood, plastic, glass, metal, water, and rock To be able to describe the simple physical properties of 	 All living things and their habitats To be able to explore and compare the differences between things that are living, dead, and things that have never been alive To be able to 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 To be able to identify and name a variety of plants and animals in their habitats. To be able to 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. Plants To be able to observe and describe how seeds and builbs grow into mature plants To be able to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Animals, including humans, have offspring which grow into adults To be able to find out able to adults grow into adults To be able to notice that animals, including humans, have offspring which grow into adults To be able to find out able to adults grow into adults 	 Plants To be able to identify and describe the functions of different parts of flowering plants: noots, stem/trunk, leaves and flowers To be able to explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant To be able to investigate the way in which water is transported within plants. To be able to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. Animals, including humans To be able to identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat To be able to identify that humans and some other animals have skeletons and muscles for support, protection and movement. Rocks To be able to compare and group together different kinds of rocks on the basis of their appearance and simple physical properties 	 Living things and their habitats To be able to recognise that living things can be grouped in a variety of ways To be able to explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment To be able to recognise that environments can change and that this can sometimes pose dangers to living things. Animab, including humans To be able to describe the simple functions of the basic parts of the digestive system in humans To be able to identify the different types of teeth in humans and their simple functions To be able to construct and interpret a variety of food chains, identifying producers, predators and prey. States of matter To be able to compare and group materials together, according to whether they are solids, liquids or gases To be able to observe that some materials change state when they are heated or cooled, and measure or research the 	Living things and their habitats - To be able to describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird - To be able to describe the life process of reproduction in some plants and animals. Animals, including humans - To be able to describe the changes as humans develop to old age. Properties and changes of materials - To be able to compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets - I know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution - To be able to use knowledge of solids.	 Living things and their habitats To be able to 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 To be able to give reasons for classifying plants and animals based on specific characteristics. Animals, including humans To be able to identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood To be able to recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function To be able to describe the ways in which nutrients and water are transported within animals, including humans, Evolution and inheritance To be able to recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago To be able to recognise that living things produce

To be able to compare and group together a variety of everyday materials based on their simple physical properties. Seasonal Changes To be able to observe changes across the four seasons To be able to observe and describe weather associated a v with the seasons and how day length varies. To To To To To Seasonal Changes Seasonal Changes To To Be able to observe and co describe weather associated To To To To To Seasons and how materials Seasons To To To To To To Seasons To To To Seasons Seasons To To Seasons To To Seasons To To Seasons Seasons Seasons To To To Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seasons Seas	 acluding humans, for urvival (water, food and ir) be able to describe the mounts of different types of ceveryday materials o be able to identify and ompare the suitability of variety of everyday naterials, including wood, netal, plastic, glass, brick, ork, paper and cardboard or particular uses be able to find out how he shapes of solid objects an be changed by quashing, bending, wisting and stretching. To be able to recognise that they need light in order to see things and that dark is the absence of light To be able to notice that light from the sun card be dangerous and that there are ways to protect their eyes To be able to recognise that shadows are formed when the light from a light source is blocked by a solid object To be able to find patterns in the way that the size of shadows change. Forces and magnets To be able to notice that some forces need contact between two objects, but magnetic forces can act at a distance To be able to notice that source is blocked by a 	 how sounds are made, associating some of them with something vibrating To be able to recognise that vibrations from sounds travel through a medium to the ear To be able to find patterns between the pitch of a sound and features of the object that produced it To be able to find patterns between the volume of a sound and the strength of the vibrations that produced it To be able to recognise that sounds get fainter as the distance from the sound source increases. Electricity To be able to identify common appliances 	 decide how mixtures might be separated, including through filtering, sieving and evaporating To be able to give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic To be able to demonstrate that dissolving, mixing and changes of state are reversible changes To be able to explain that some changes result in the formation of new materials, and that this kind of charge is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. Earth and Space To be able to 	 but normally offspring vary and are not identical to their parents To be able to identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. Light To be able to use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye To be able to explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes To be able to use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. Electricity To be able to associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit To be able to compare and give reasons for variations in how components
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			closes a circuit and associate this with whether or not a lamp lights in a simple series circuit - To be able to recognise some common conductors and insulators, and associate metals with being good conductors.	explain day and night and the apparent movement of the sun across the sky. Forces - To be able to explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object - To be able to identify the effects of air resistance, water resistance and friction, that act between moving surfaces - To be able to recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
Skills (Investigations) - To run as a thread throughout all scientific work.	 Enquiry skills. Questioning skills asking and responding to questions posed. Exploration and observational skills – using first hand experience and secondary sources to explore and gather information to answer to question. 	 Asking simple questions and recognising that they can be answered in different ways Observing closely, using simple equipment Performing simple tests Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions. 	 Asking relevant questions and using different types of scientific enquiries to answer them Setting up simple practical enquiries, comparative and fair tests Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Identifying differences, similarities or changes related to simple scientific ideas and processes Using straightforward scientific evidence to answer questions or to support their findings. 	 Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Using test results to make predictions to set up further comparative and fair tests Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments.

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Resources – Including link to Reading	 Outdoor classroom Non-fiction and fiction books Whole class internet use to research and find images Pens and other recording materials iPads for pictures Reading labels and captions Consumables Visits 	 Outdoor classroom Animal pictures/models Online research Book research Online videos Posters Outside visitors Material samples Everyday objects using curriculum specific materials iPads for pictures Magnifying glasses Consumables Visits 	 Outdoor classroom Animal pictures/models Online research Book research Online videos Posters Outside visitors Material samples Everyday objects using curriculum specific materials iPads for pictures Magnifying glasses Gardening equipment Seeds and bulbs Consumables Visits 	 Outdoor classroom Seeds and bulbs Plant diagrams Animal pictures/models Online research Book research Ontine videos Posters Outside visitors iPads for pictures Different rock samples Torches Mirrors Magnets Magnets Kagnetic/non-magnetic objects Everyday objects/materials using curriculum specific materials. iPads for pictures Skeleton model Consumables Dark tent Visits 	 Animal internal pictures/models Teeth pictures/models Online research Book research Online videos Posters Outside visitors iPads for pictures Musical instruments iPads for pictures Data logger Apps relevant to sound and light capture Thermometer Examples of different liquids, gases and solids Digital scales Electrical circuit kit Bulbs and batteries Tape measure Heating and cooling equipment Consumables Visits 	 Lifecycle pictures Outdoor classroom Diagrams of reproduction Online research Book research Online videos Posters Outside visitors iPads for pictures Data logger Thermometer Examples of different liquids, gases and solids Digital scales Electrical circuit kit Bulbs and batteries Tape measure Heating and cooling equipment Filter paper Solar system model Space camp equipment Torches Lever Pulleys Gears Water tray Stop watch Consumables Visits 	 Outdoor classroom Pictures of humans, animals and micro- organisms Animal organs for dissection Scalpel Model/pictures of the human circulatory system Online research Book research Online videos Posters Outside visitors iPads for pictures. Data logger Digital scales Electrical circuit kit Bulbs and batteries Tape measure Torches Mirrors Stop watch Consumables Visits

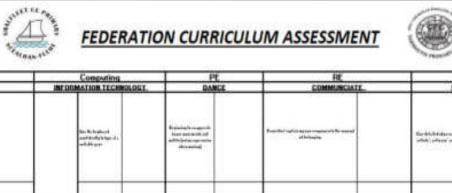
OUR IMPLEMENTATION -ASSESSMENT

Class teachers use assessment to track the achievements of pupils through the science topics. This can influence next steps for pupils and the level of support needed.

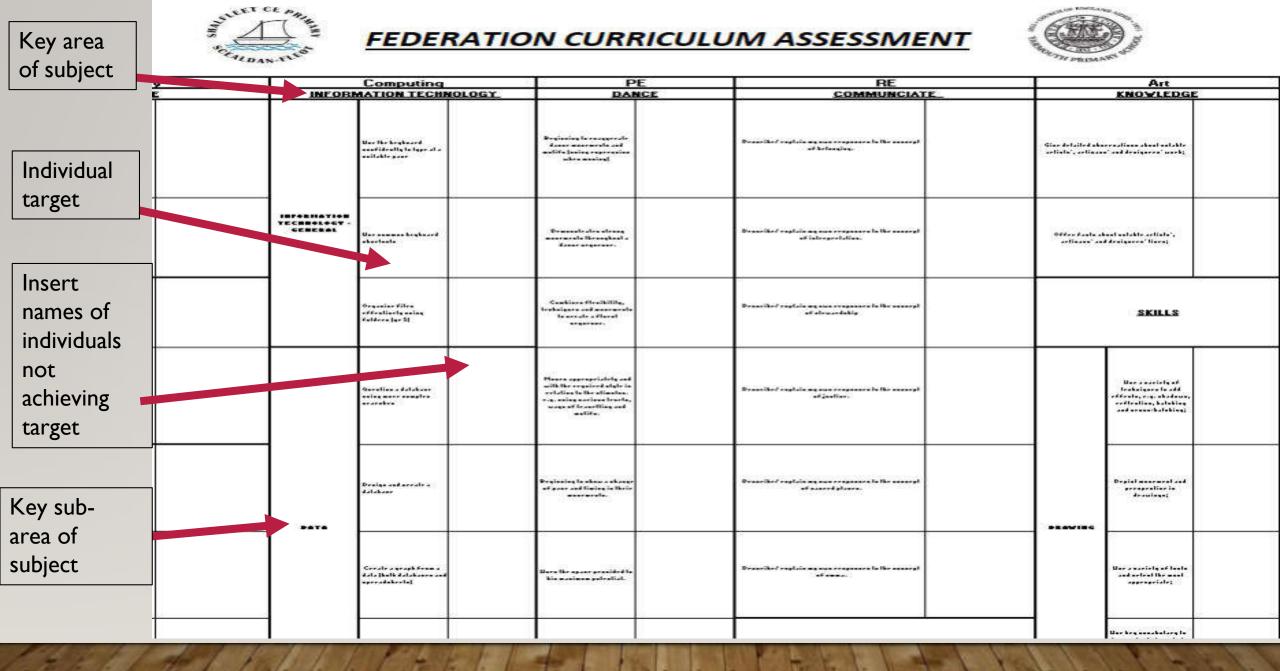
Key science targets for each sequence of lessons and children should be assessed against these.

The assessment model is designed to support all pupils to access the science curriculum and also challenge higher attaining pupils.

The assessment of science is supported by the targets from the science progression map and the assessment document is designed to support staff with accurate assessment measures by identifying children who have achieved targets and importantly inputting the names that have yet to achieve a target.



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Koyaroa		Science		
Key area of subject		KNOWLEDGE		
Individual target		To be able to explore and compare the differences between things that are living, dead, and things that have never been alive	Asking simple questions and recognising that they can answered in different ways	be
Skills specific to		To be able to identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic	Observing closely, using simple equipment	
Key Stage	ALL LIVING THINGS AND THEIR HABITATS	needs of different kinds of animals and plants, and how they depend on each other	Performing simple tests	
(19/3-/1-)		To be able to identify and name a variety of plants and animals in their habitats, including micro- habitats	Identifying and classifying	

MONITORING AND EVALUATING

Impact of the implementation of the science curriculum is measured in a variety of ways.

These include:

- Pupil Conferencing
- Work Scrutiny alongside teacher's planning
- Assessment data
- Learning walks
- Learning environment

EVIDENCE ATTAINED FROM THESE FOLLOWS ON THE NEXT SLIDES (SPLIT INTO YEAR GROUPS)

OUR IMPLEMENTATION: Long Term Planning

Link to Federation Long Term Planning for Science

https://drive.google.com/drive/folders/1IoE0Zj-8RTvoyzaKmAxL5ZS8MWtZjXc0?usp=sharing

OUR IMPLEMENTATION

Link to Federation Planning for Autumn Term:

https://drive.google.com/drive/folders/1-qrBJrKjbQwraNKv9V1pZuGjAF4KGEyu?usp=sharing

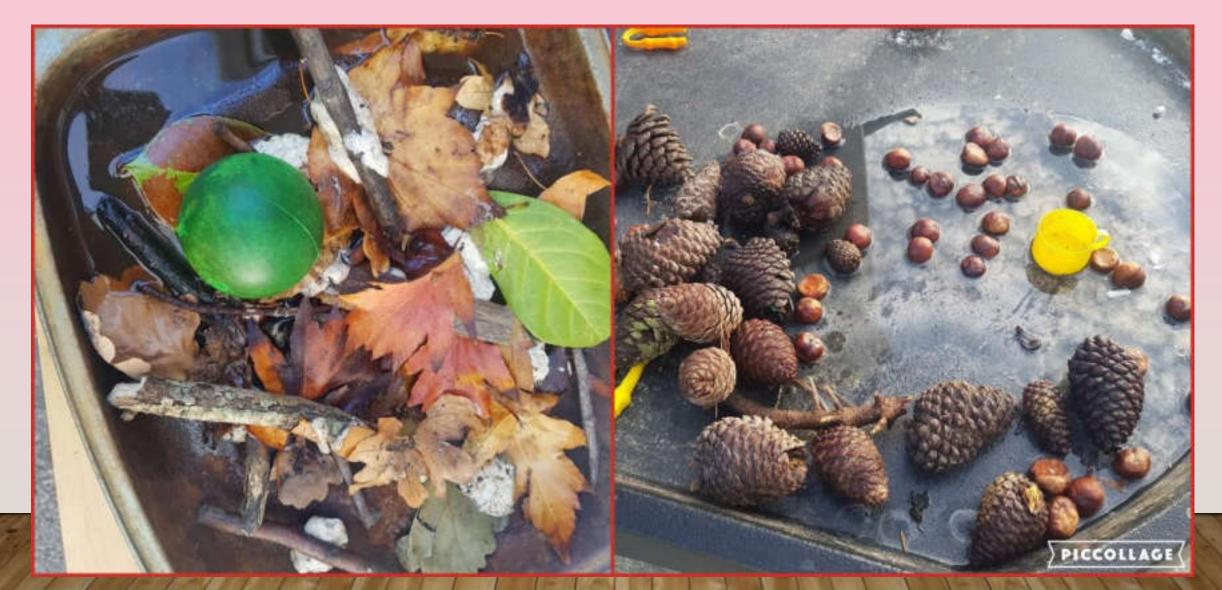
Link to Federation Planning for Spring Term:

https://drive.google.com/drive/folders/1koAF6Sgl6IKnoNBz9-55i31p7CC63nvO?usp=sharing

Link to Federation Planning for Summer Term:

https://drive.google.com/drive/folders/1_DUoVTQmR6iqsUeIgrBV7MqMmjYHGMjF?usp=share_link

EYFS Shalfleet



EYFS Shalfleet



EYFS Yarmouth



EYFS Yarmouth: Child-Led and Adult-Led opportunities in Science



EYFS Yarmouth: Adult-Led Investigations based on interests



EYFS Yarmouth: Adult-Ledinvestigations linked to a text



EYFS Shalfleet: Adult-Led Investigations based on seasonal changes in our environment



EYFS Shalfleet: Adult-Led Investigations based on interests



FEDERATION COVERAGE – SUMMER TERM



EYFS FRESHWATER & YARMOUTH:

SCIENCE SKILLS IN KEY STAGE I

- Asking simple questions and recognising that they can be answered in different ways
- Observing closely, using simple equipment
- Performing simple tests
- Identifying and classifying
- Using their observations and ideas to suggest answers to questions
- Gathering and recording data to help in answering questions.

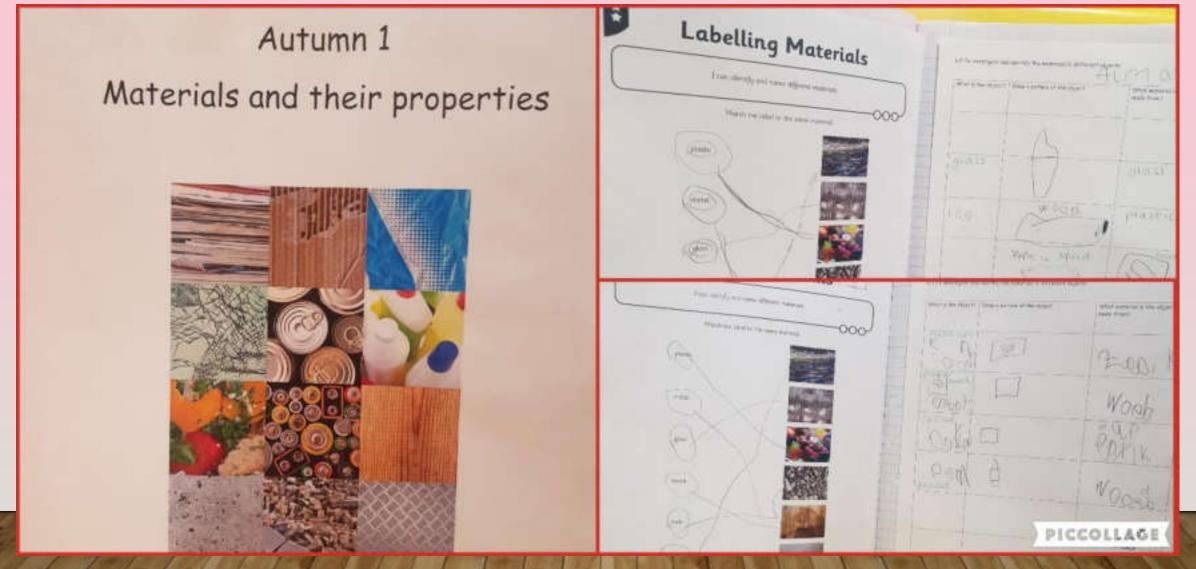
SCIENCE IN YEAR I

- Everyday materials
- Seasonal changes
- Animals including humans
- Plants

Year One Yarmouth: Everyday Materials

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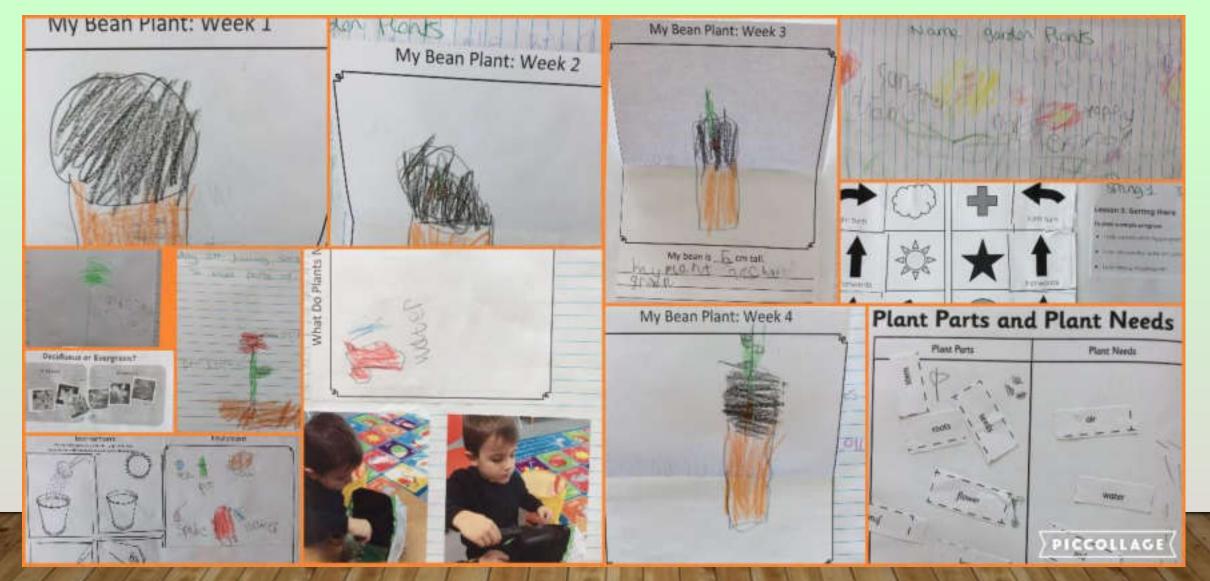
Year One Shalfleet: Everyday Materials



Year One Yarmouth: Seasonal Changes

Kiy Victical	19	dutumn	The second state of the second states
svasona	There are four seasons each gear, autumn, winter, spring and summar.		A AND AND DO
outumn	In matume, the second begins to get colder. The leaves start to fall from the trues. The amount of becomes less. This means the dogtimes are shorter and the night times are longer.		Participant and the second second
winter	In white, the sector is much colder Sometimes it is cold enough to freeze, leaving front and ice on the ground. It senatimes moves. Many trees have been branches as all their leaves have fallers off. The displanes are the shortest in the year and the night times are the largest.	The Four Seasons dutumon September October November Februar	
weather .	The sociales the temperature estraids, the word direction and strength, as well as min, cloud, snow and sun. is when it is light outside. The annuart	spring summ March June April July May Augus	In the first of the second sec
Daylight	changers with each sensor.	ey have	Image: Series Image: Series<

Year One Yarmouth: PLANTS

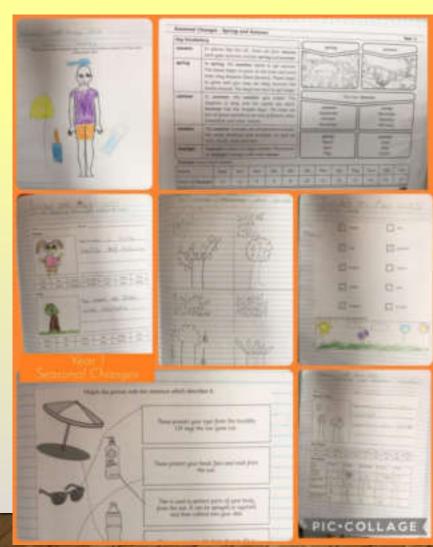


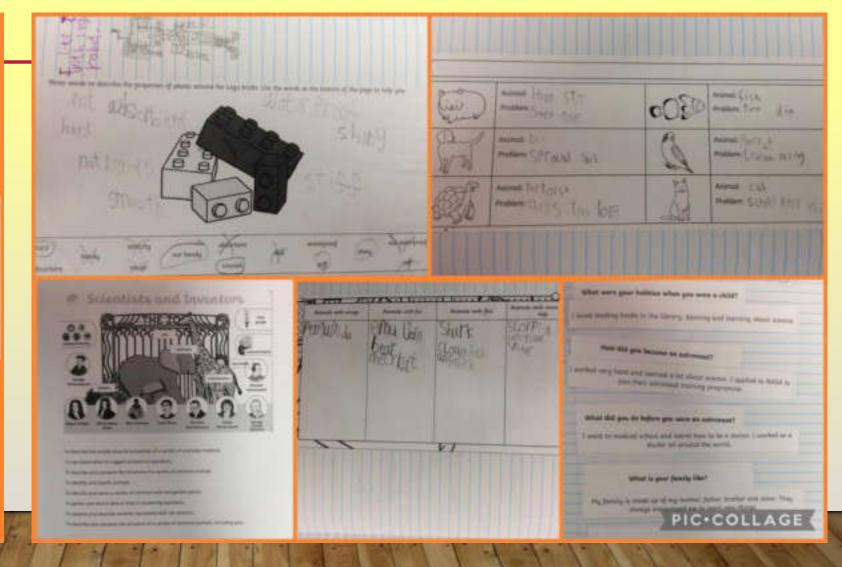
Year One Shalfleet: PLANTS



FEDERATION COVERAGE – SUMMER TERM

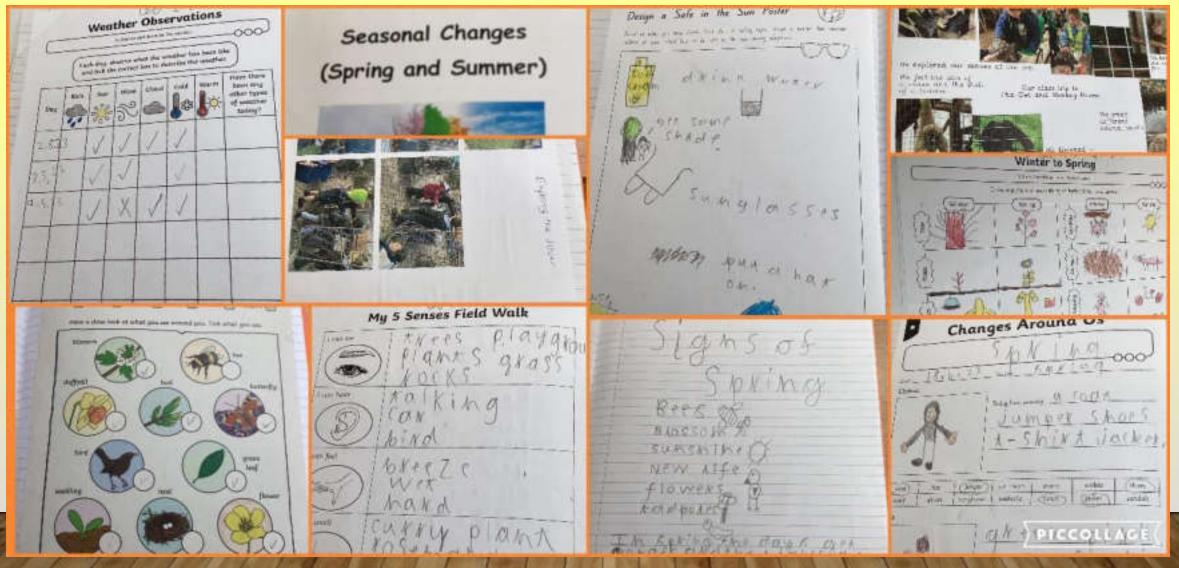
Year One Freshwater & Yarmouth: SEASONAL CHANGES and consolidation





FEDERATION COVERAGE – SUMMER TERM

Year One Shalfleet: SEASONAL CHANGES and consolidation

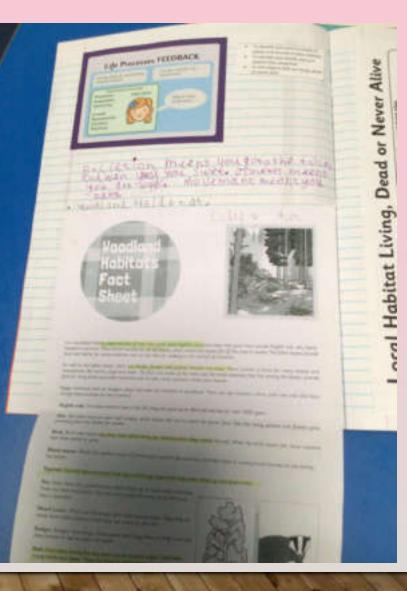


SCIENCE IN YEAR 2

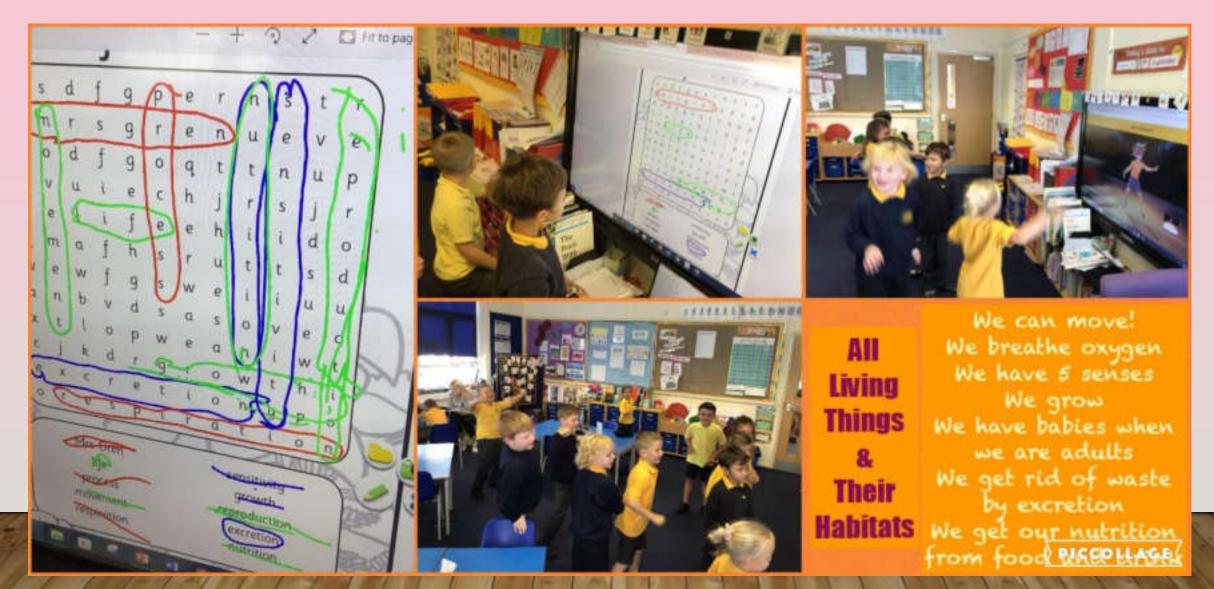
- All living things and their habitats
- Animals including humans
- Plants
- Uses of everyday materials
- Plants revisited

Year Two Yarmouth: All Living Things and Their Habitats

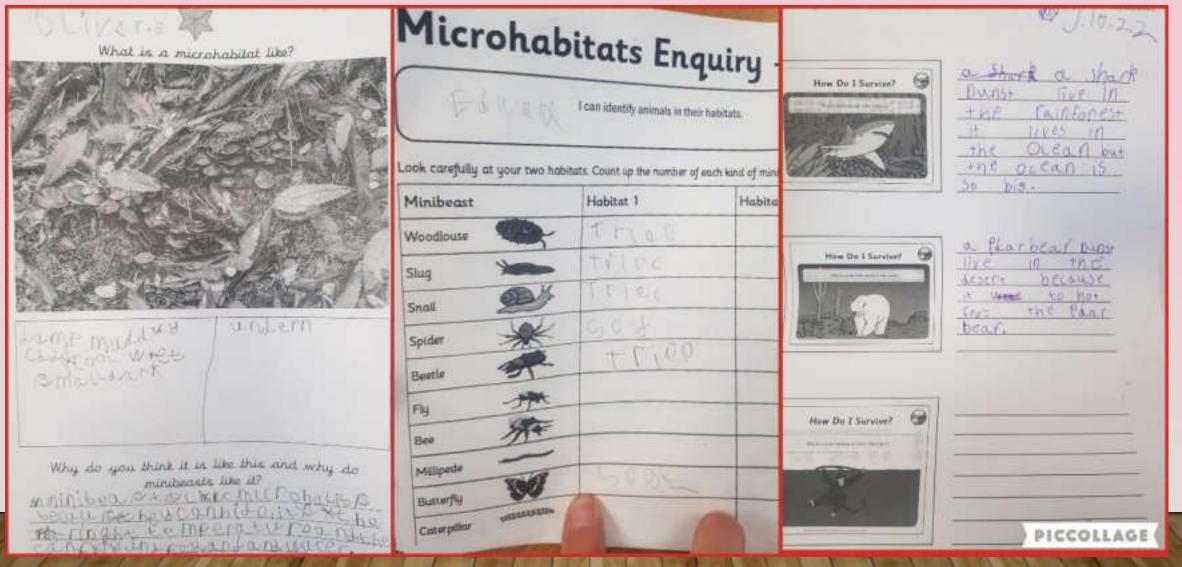




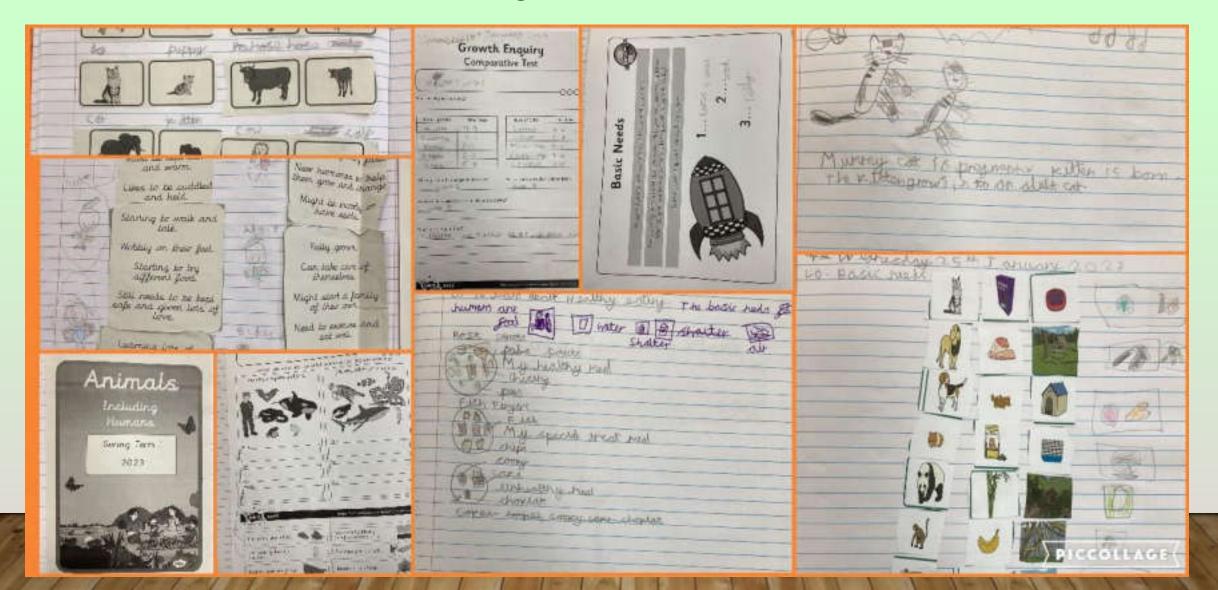
Year Two Yarmouth: All Living Things and Their Habitats



Year Two Shalfleet All Living Things and Their Habitats



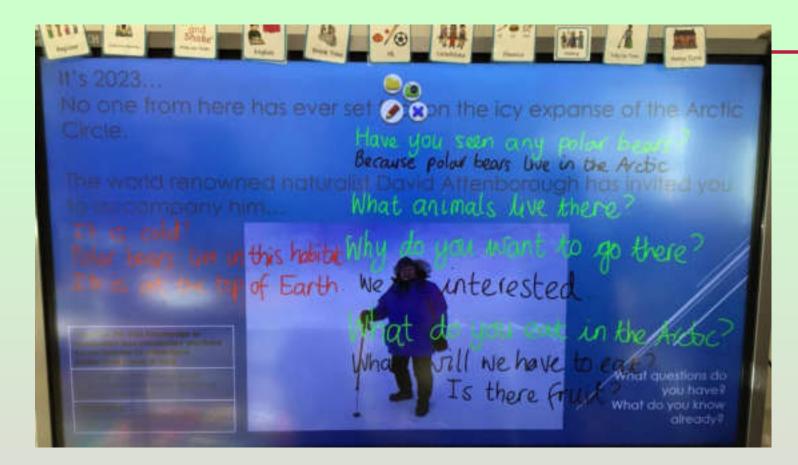
Year Two Shalfleet: Animals Including Humans



Year Two Yarmouth:



Year Two Yarmouth Animals Including Humans



Prior learning linked to English when reading and writing about the **Arctic Habitat.**

Year Two Yarmouth Animals Including Humans HUMAN LIFE CYCLE



Year Two Freshwater & Yarmouth: Plants part ii



Year Two Freshwater & Yarmouth: Plants part ii

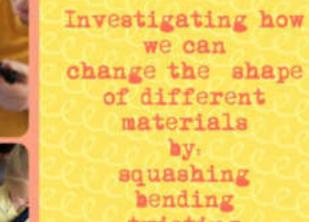




Year Two Freshwater & Yarmouth: Materials







we can change the shape of different materials squashing bending twisting stretching

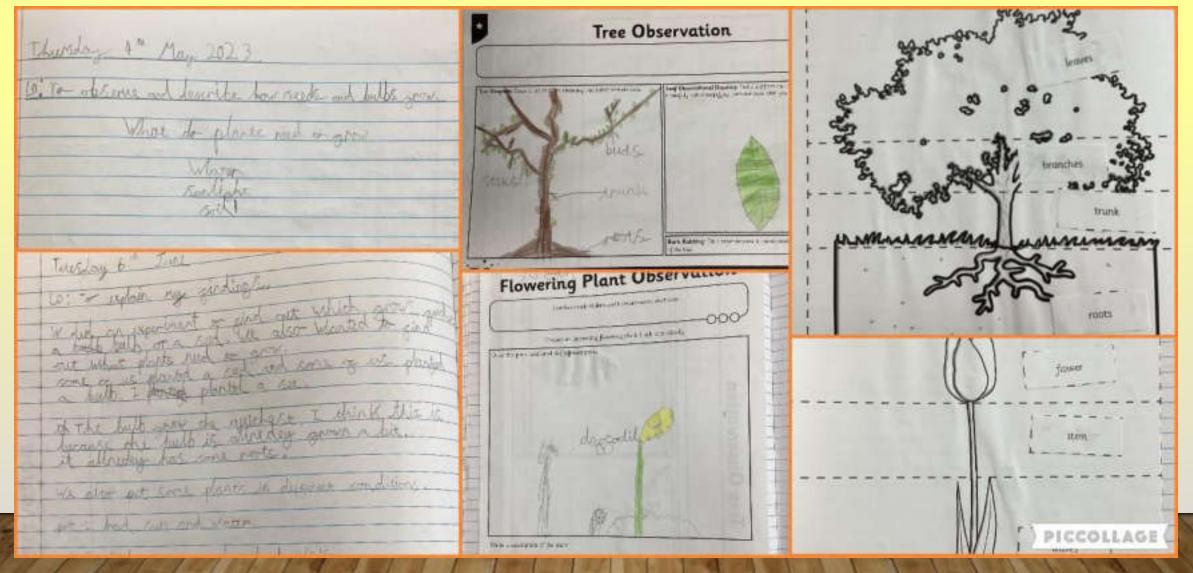




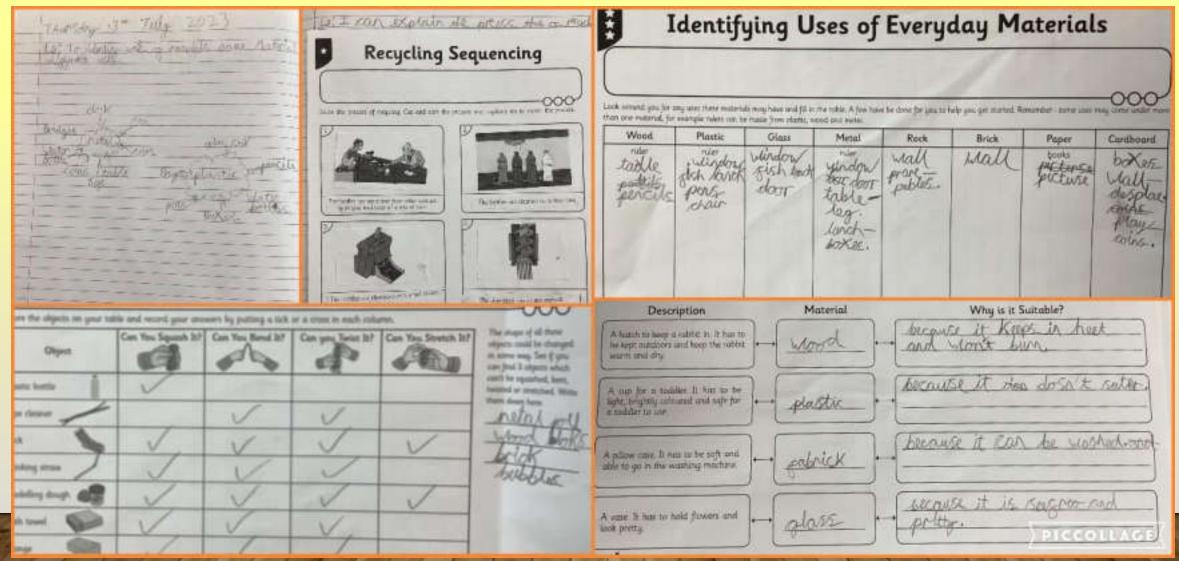


COLLAGE

Year Two Shalfleet: Plants



Year Two Shalfleet: Materials



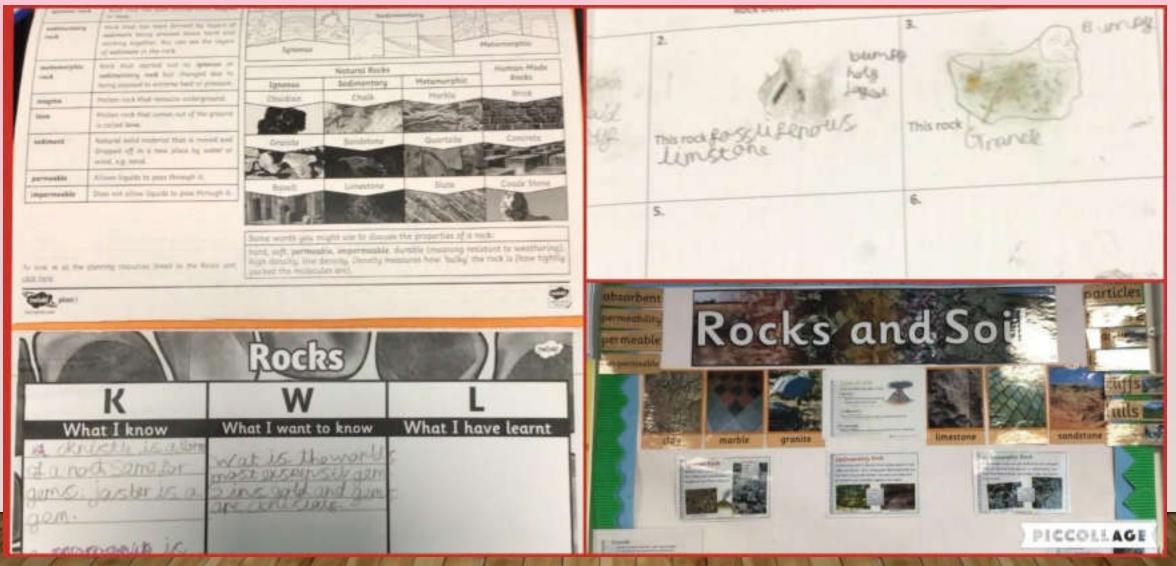
SCIENCE SKILLS IN KEY STAGE 2

- Asking relevant questions and using different types of scientific enquiries to answer them
- Setting up simple practical enquiries, comparative and fair tests
- Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- Identifying differences, similarities or changes related to simple scientific ideas and processes
- Using straightforward scientific evidence to answer questions or to support their findings.

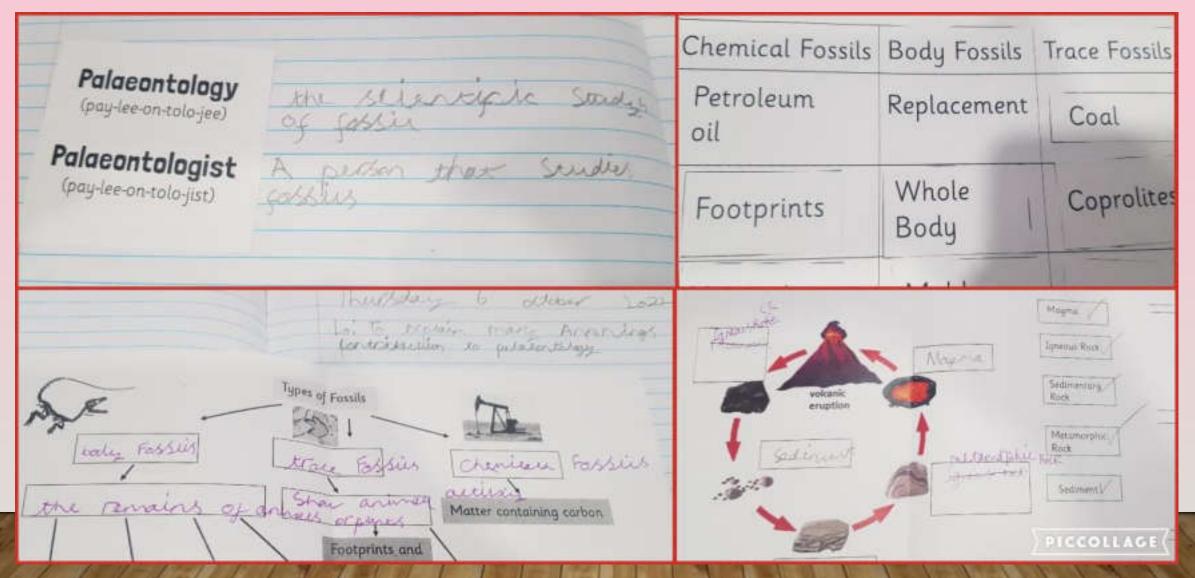
SCIENCE IN YEAR 3

- Rocks
- Animals including humans
- Plants
- Light
- Forces and magnets
- Plants

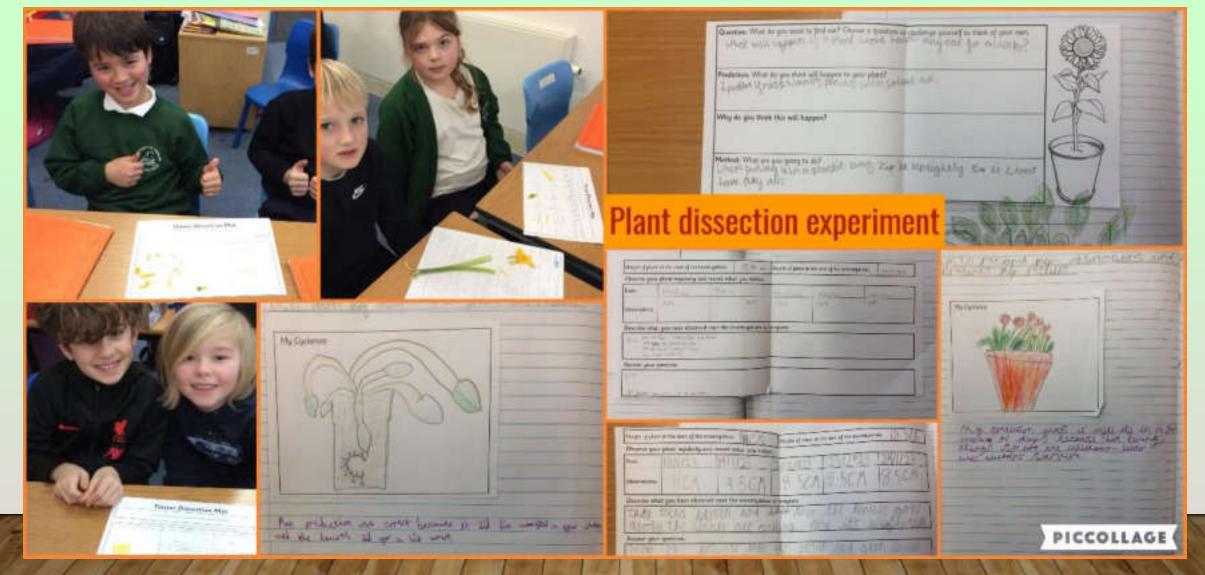
Year Three Yarmouth: Rocks and Soil



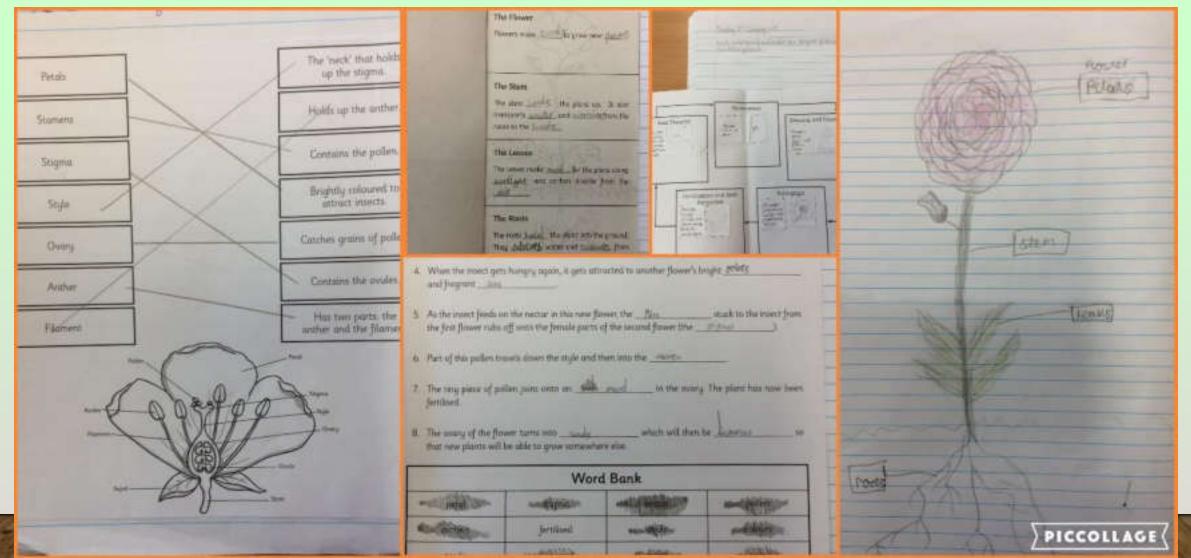
Year Three Shalfleet: Rocks and Soil



Year Three Shalfleet: Plants



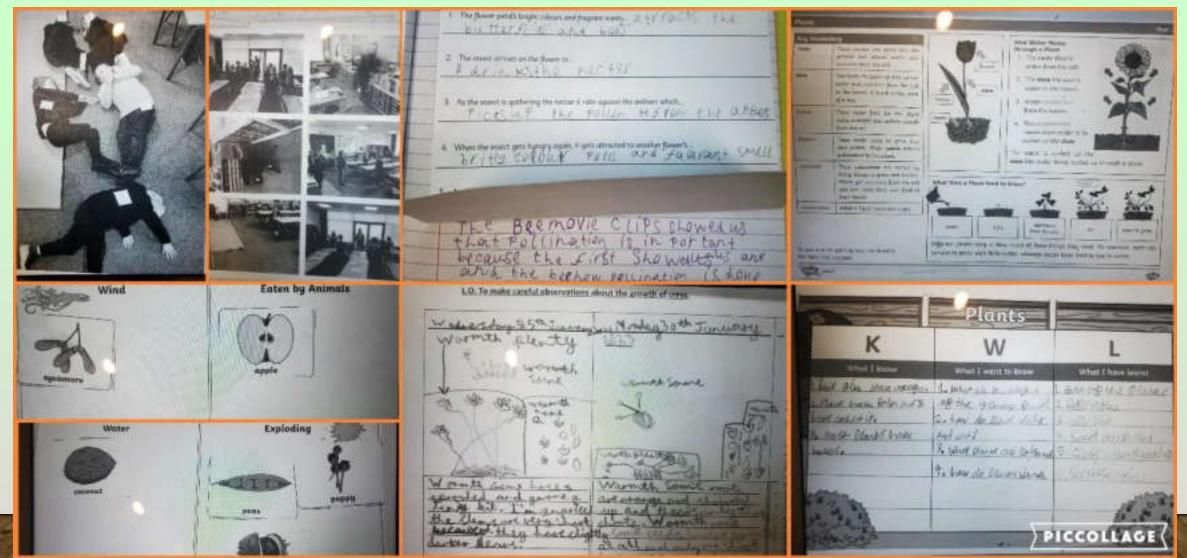
Year Three Shalfleet: Plants



Year Three Shalfleet: Plants - Water Transportation Process



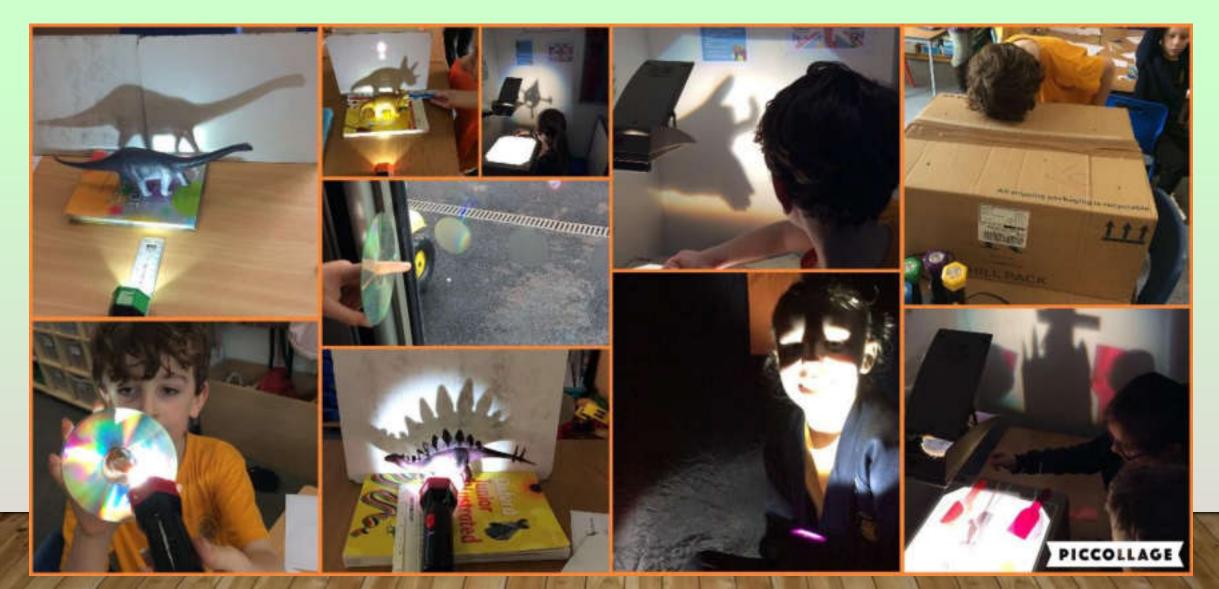
Year Three Yarmouth: Plants



Year Three Yarmouth: LIGHT To be able to notice that light is reflected from surfaces



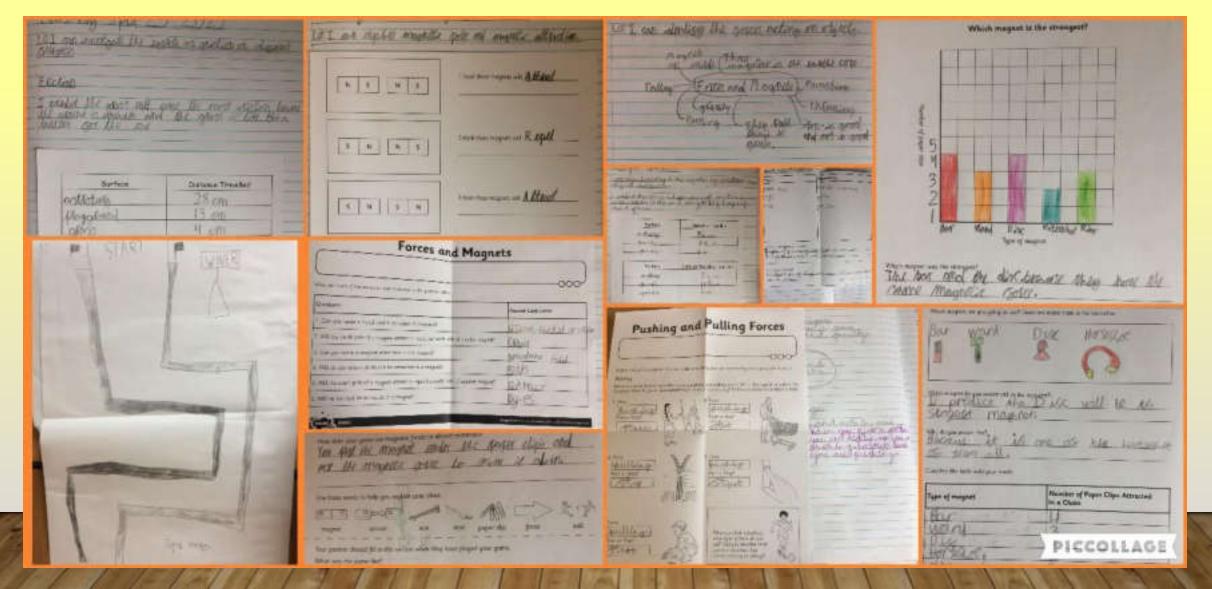
Year Three Yarmouth: LIGHT understanding shadows



Year Three Freshwater & Yarmouth:FORCES



Year Three Shalfleet:FORCES



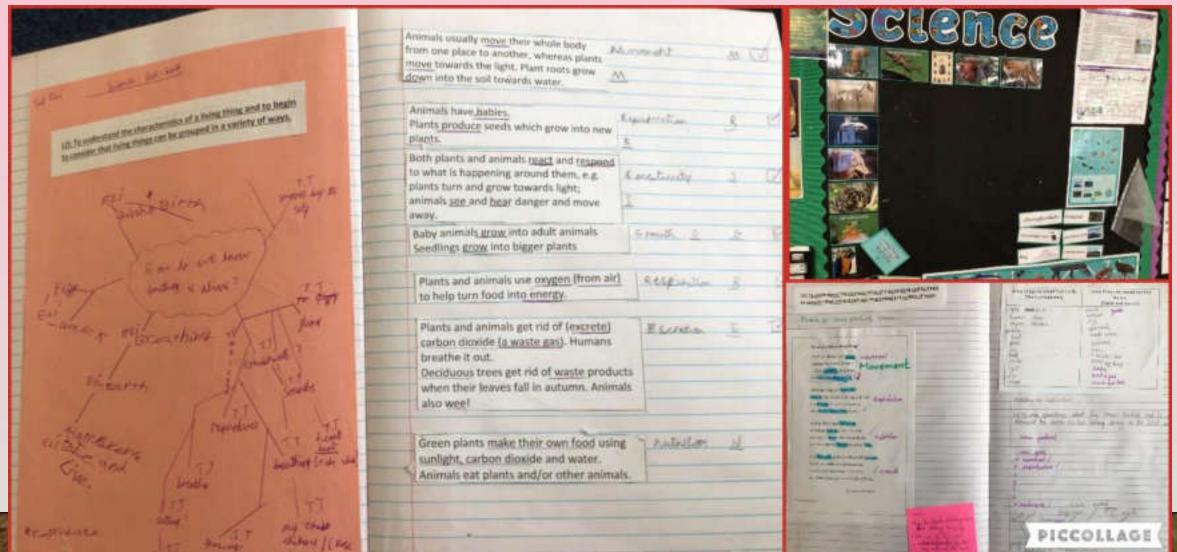
Year Three Shalfleet: PLANTS including wider curriculum Art work

WALL PROPERTY AND THE POST Nor bladel devilier our genur pepp made " 100 miles mare dellight while solve solver here beren Konne Starts are dially concerned ·Revised annoted and with the and begins Altrade basin that to por take pinaple and searce PR * Diad Daugeas contract inerdand over 2100 prove - Lawar Min #La Body " was Forest brack, base used want speels of plongs and china in the envir Moor taileto My Fichters of a Stargaster like M ~ Michie the Section of Minutes - ann Witter turily WHIME go down at her they country aline in restored - 1001 paulier be dear whipi in Halland some litigs and CONTRACT VERMICAN M. merleathen 1. Gomination "I read the same roots poil more people surged the 1.5 Universition 2 otrailes and donealing . The R. and others of the flynning for they and also Fatilities and suite grandies 2 pellingten Parties anopping the sold to the Andre to ght AFertilication and said potration I think the mod ingestional chart of the plants he while a stand difference in the contract of the stand of the stand with the contract of the stand of the stand of the contract of · Dored Davide (Sull of Jacked and 24 8 3 prin a about Erseid dispersal I this the most in gontants store of the plate line cycle is the plate line cycle is the provide the plate in the plate in the plate. the fall with back we llen 32,000 your of put PICCOLLAGE

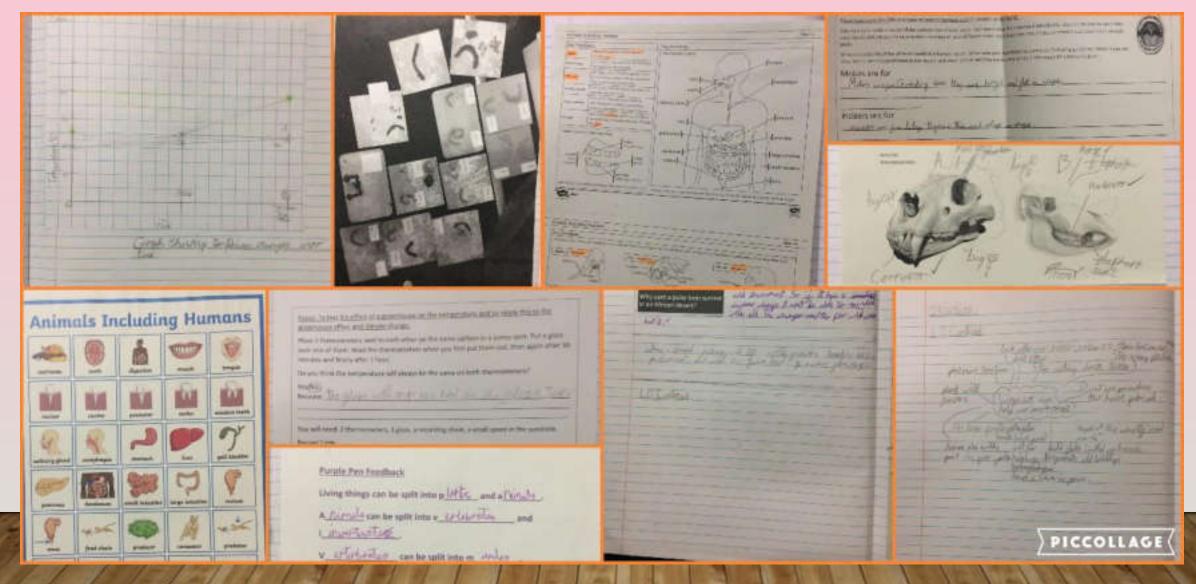
SCIENCE IN YEAR 4

- Living things and their habitats
- Animals including humans
- States of matter
- Sound
- Electricity

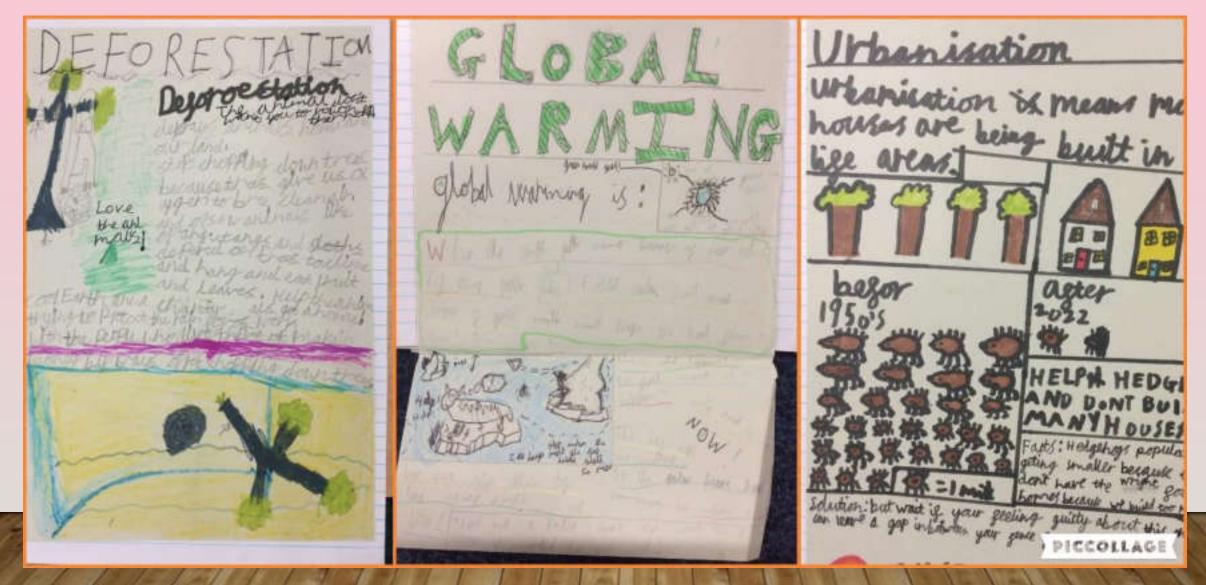
Year Four Yarmouth: Living Things



Year Four Yarmouth: Animals Including Humans



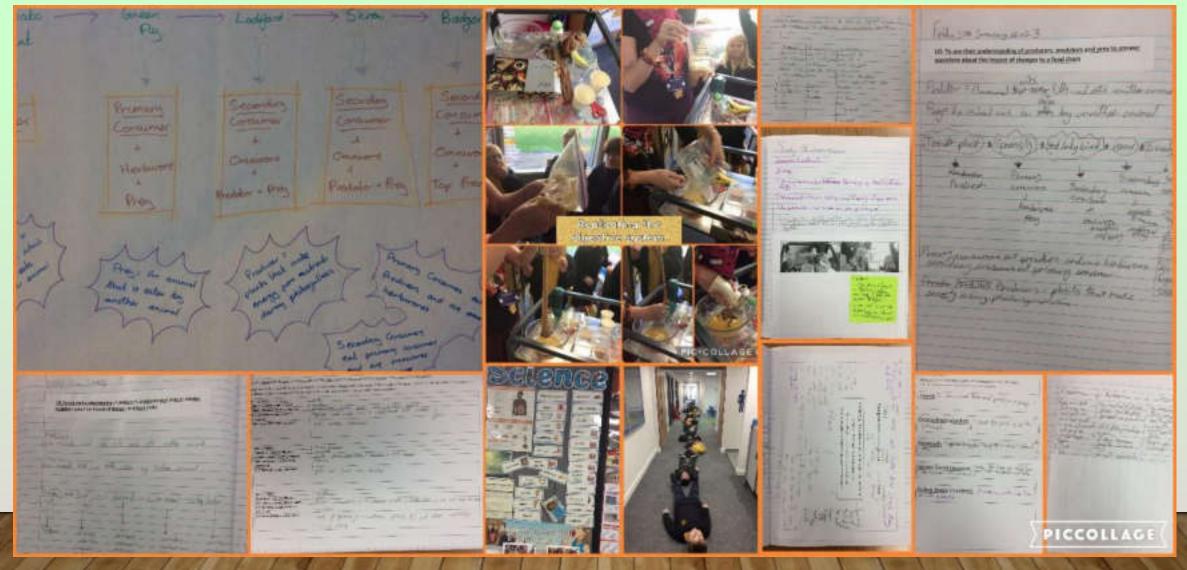
Year Four Yarmouth:



Year Four Shalfleet: Living things and their habitats

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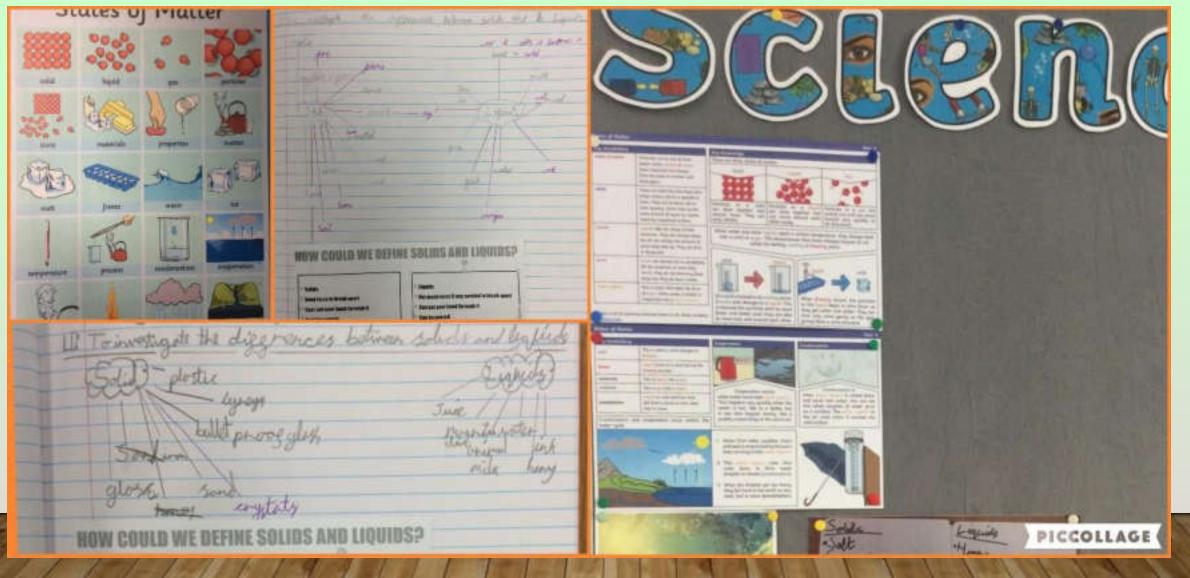
Year Four Yarmouth: Animals Including Human THE DIGESTIVE SYSTEM



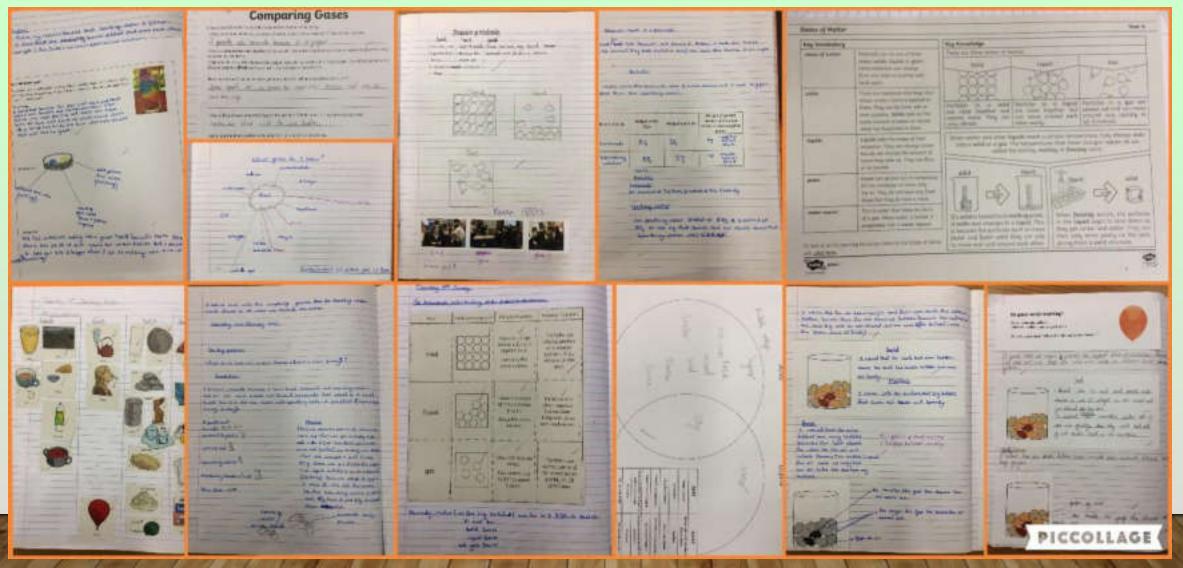
Year Four Yarmouth: Animals Including Human TEETH



Year Four Yarmouth: States of Matter



Year Four Shalfleet: States of Matter



Year Four Shalfleet: States of Matter



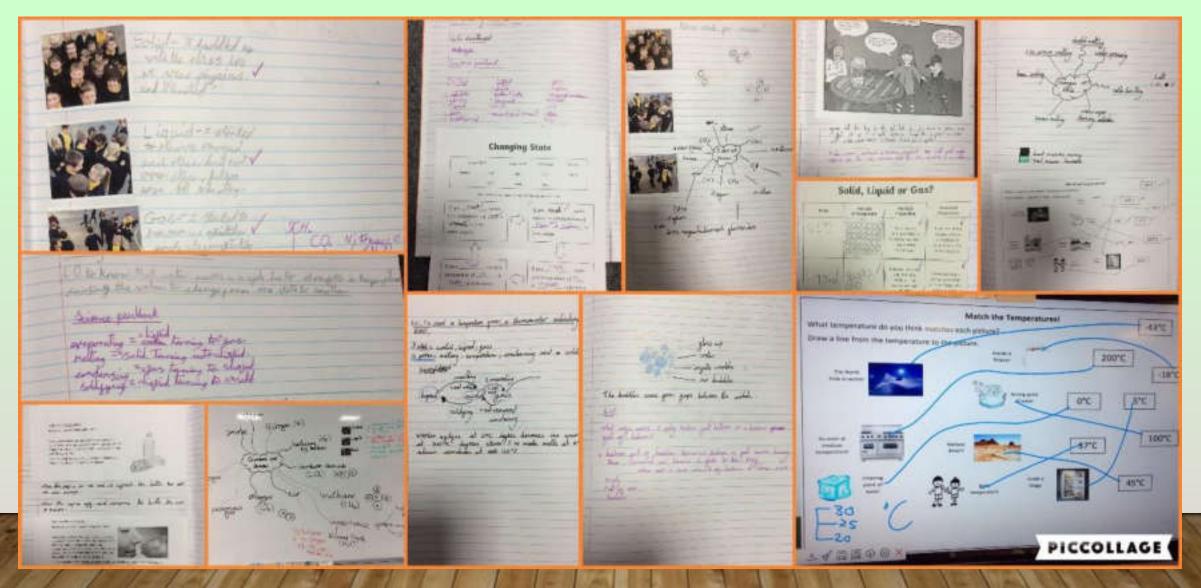
Year Four Shalfleet: States of Matter

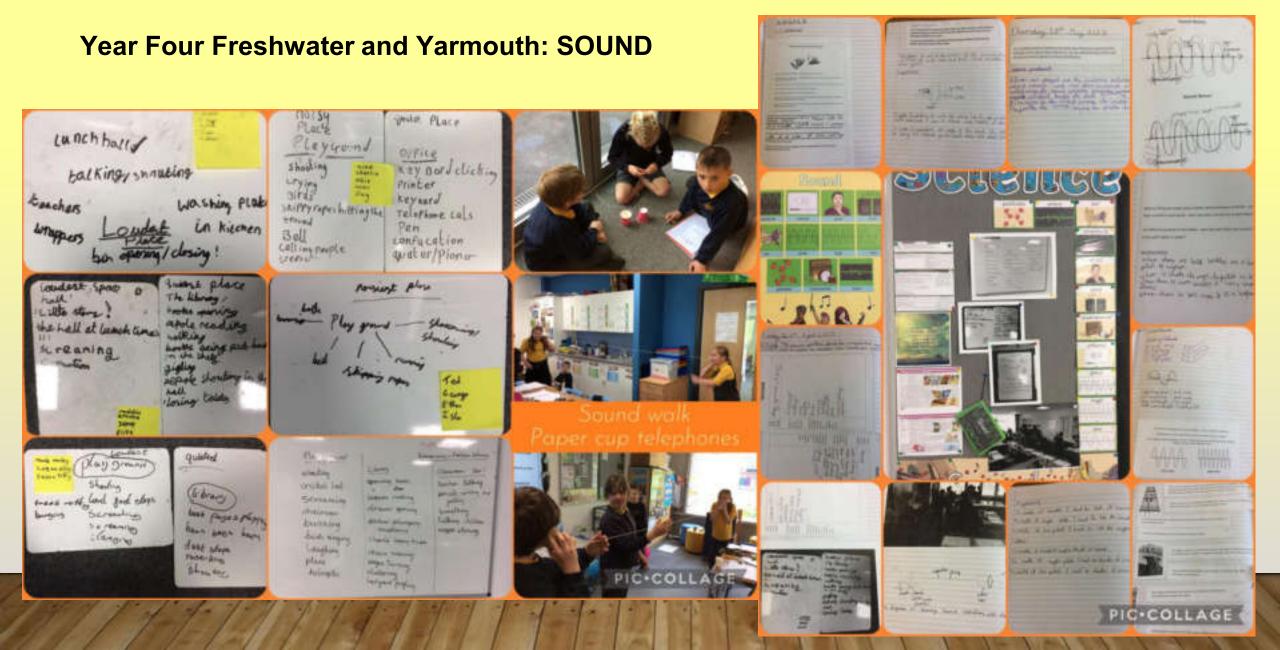


Year Four Freshwater and Yarmouth: States of Matter

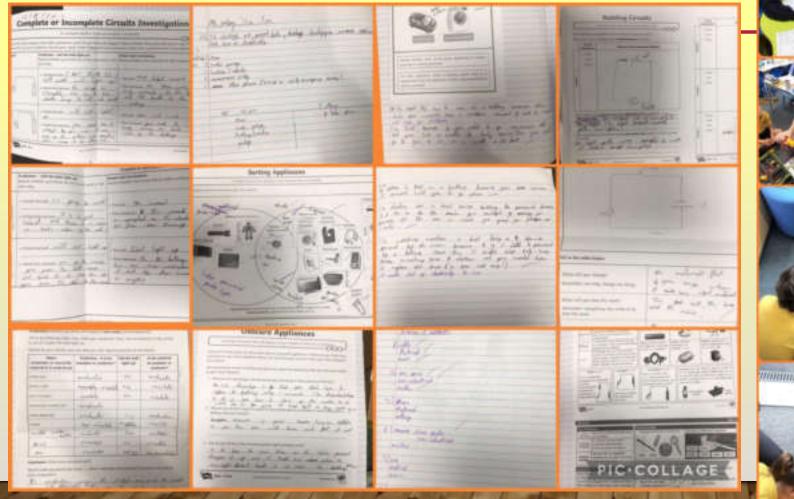


Year Four Freshwater and Yarmouth: States of Matter





Year Four Freshwater and Yarmouth: ELECTRICITY



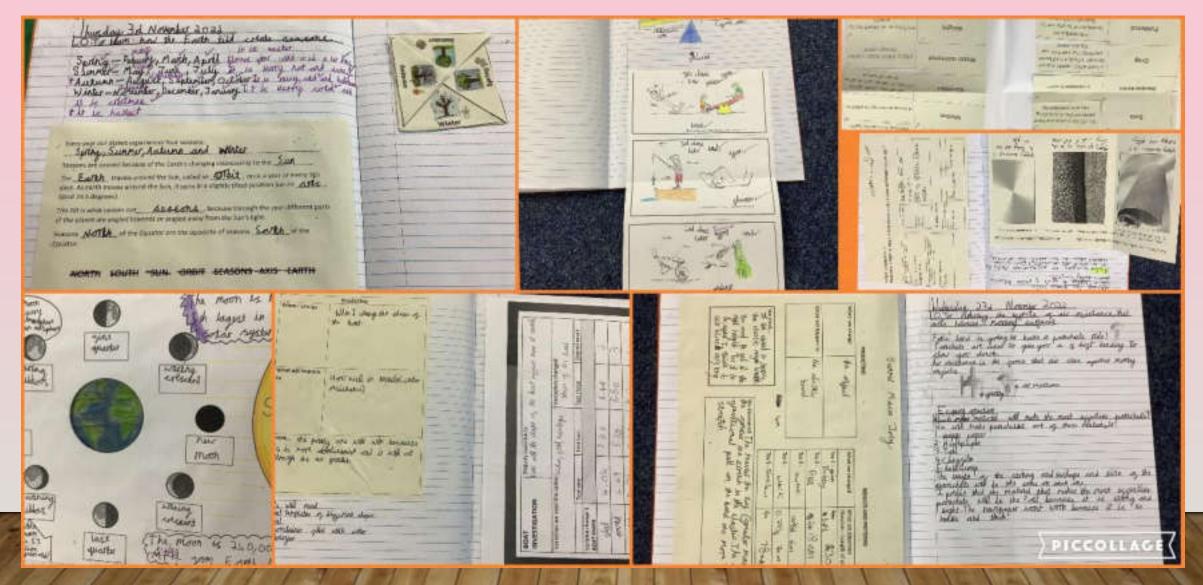


SCIENCE IN YEAR 5

- Earth and Space
- Forces
- Properties and changes of materials
- All Living Things and their Habitats
- Animals Including Humans



Year Five Yarmouth: Earth and Space and Forces



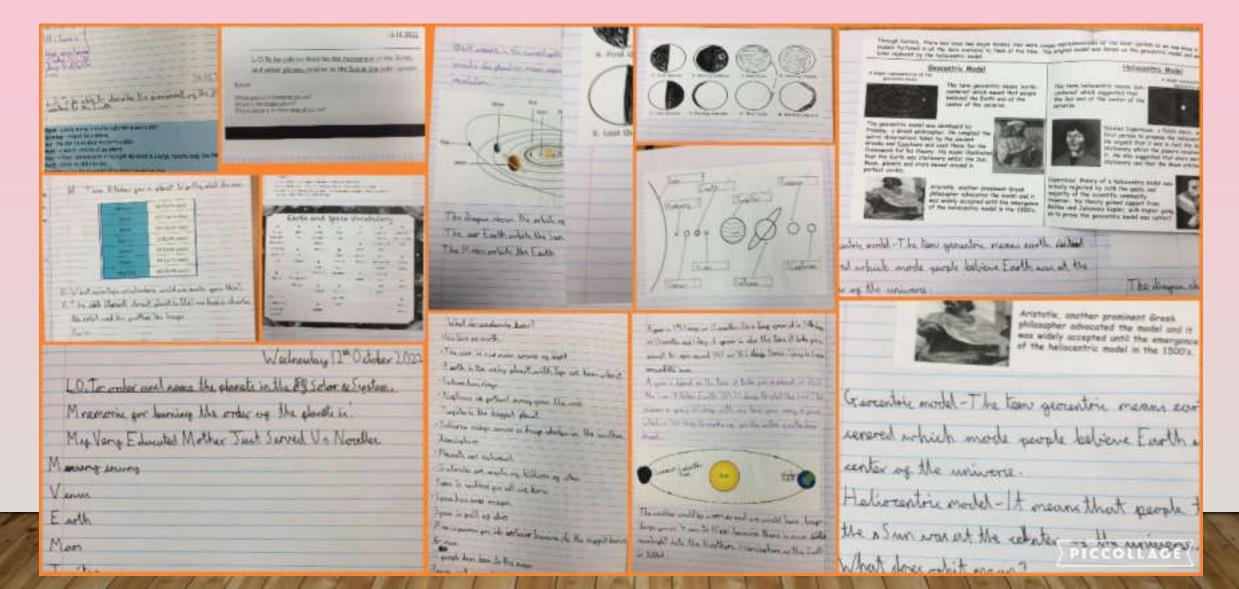
Year Five Yarmouth: Earth and Space and Forces



Year Five Yarmouth: Earth and Space and Forces



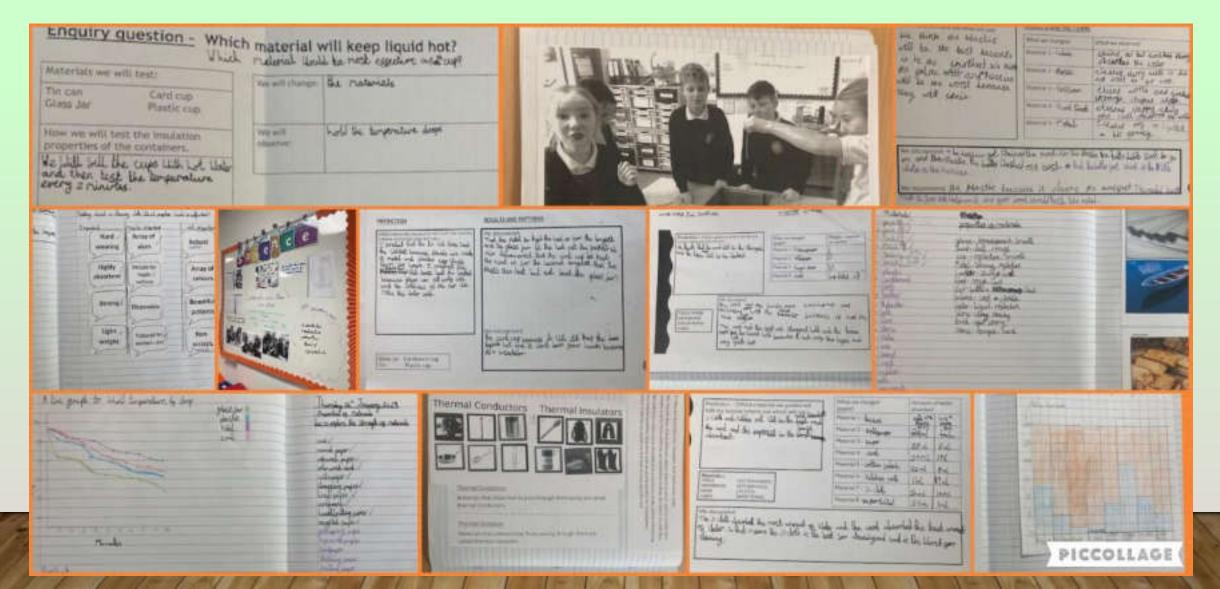
Year Five Shalfleet: Earth and Space



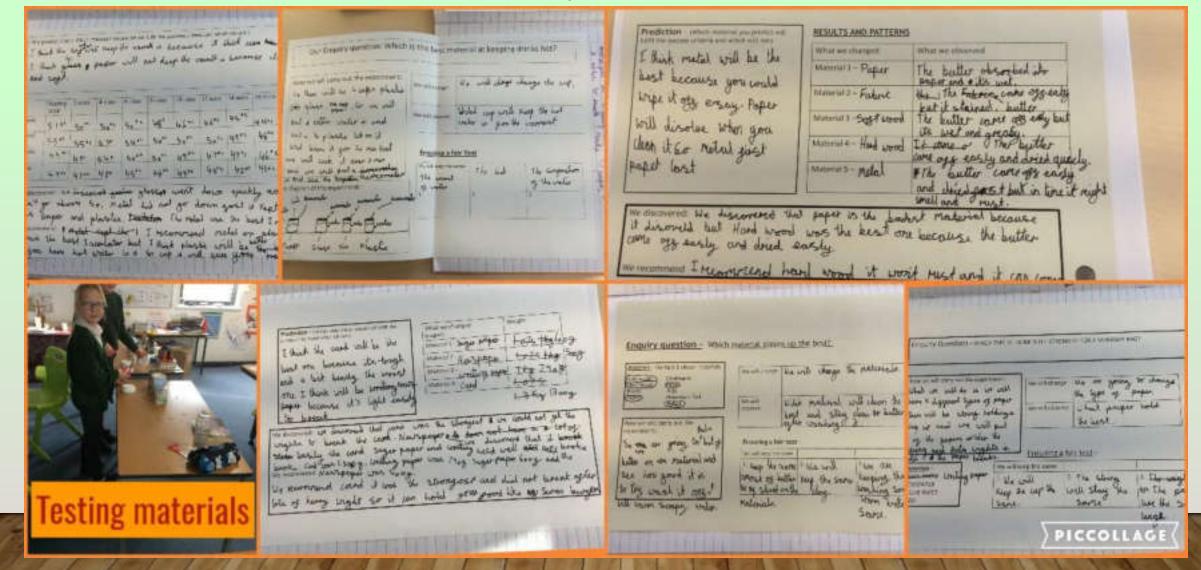
Year Five Yarmouth: Materials and their Properties



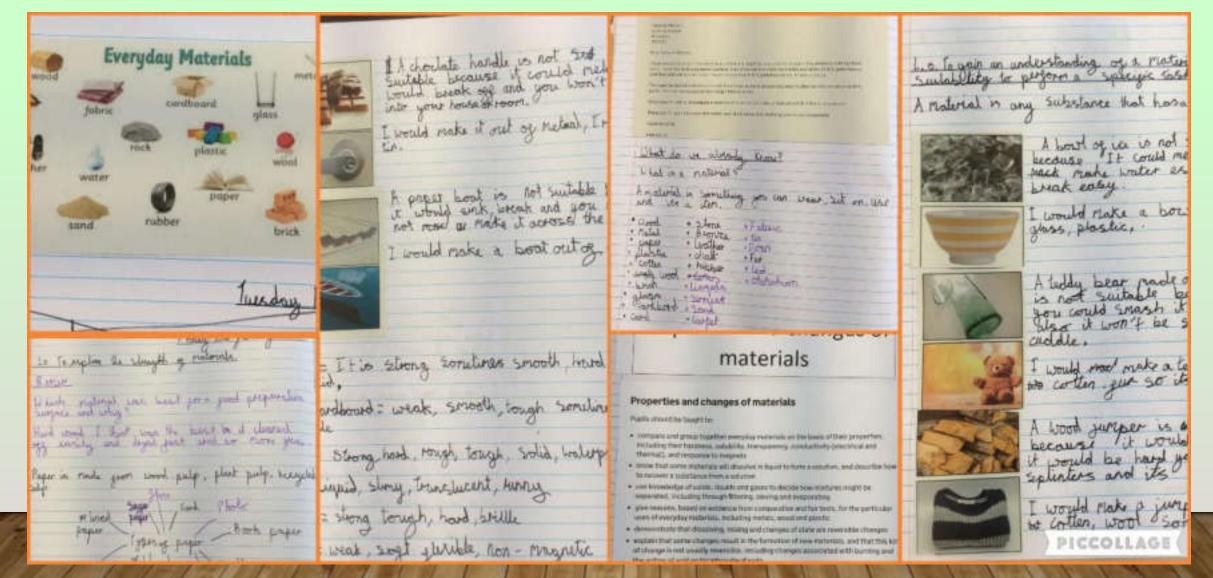
Year Five Yarmouth: Materials and their Properties



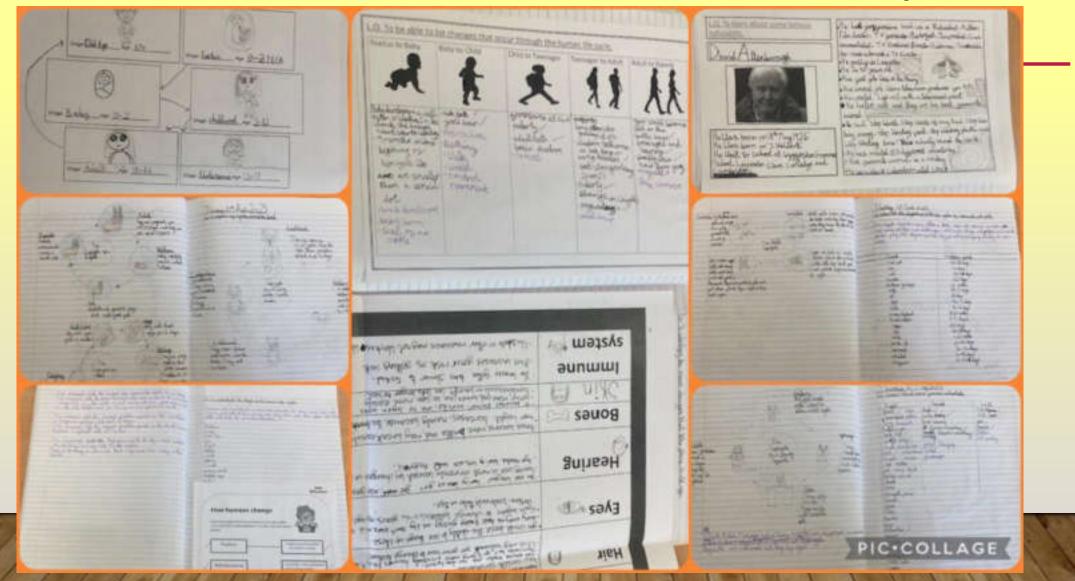
Year Five Shalfleet: Materials and their Properties



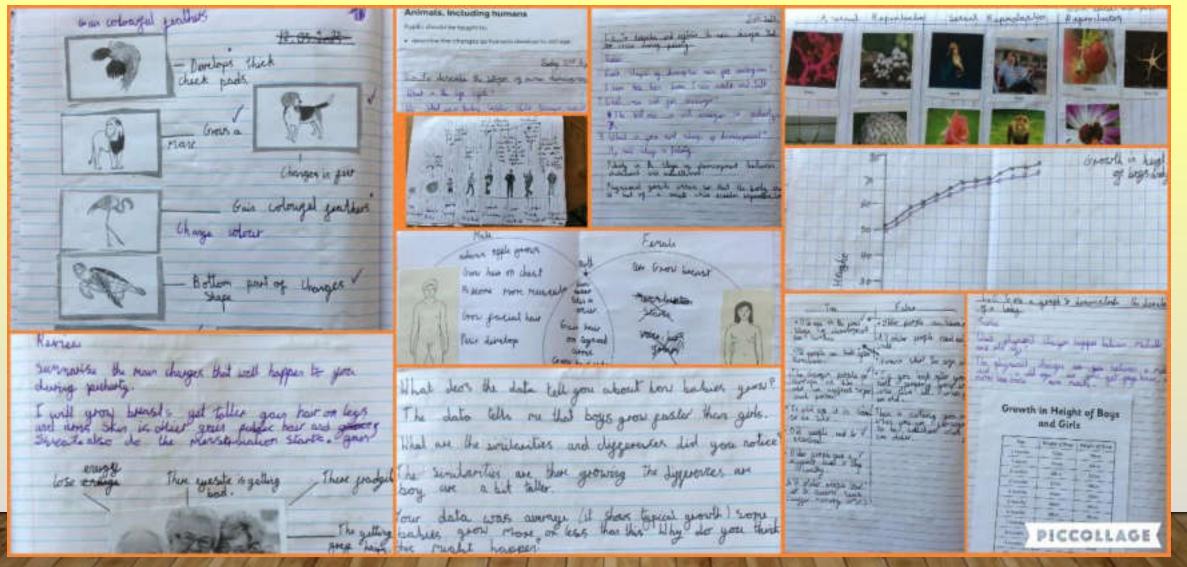
Year Five Shalfleet: Materials and their Properties



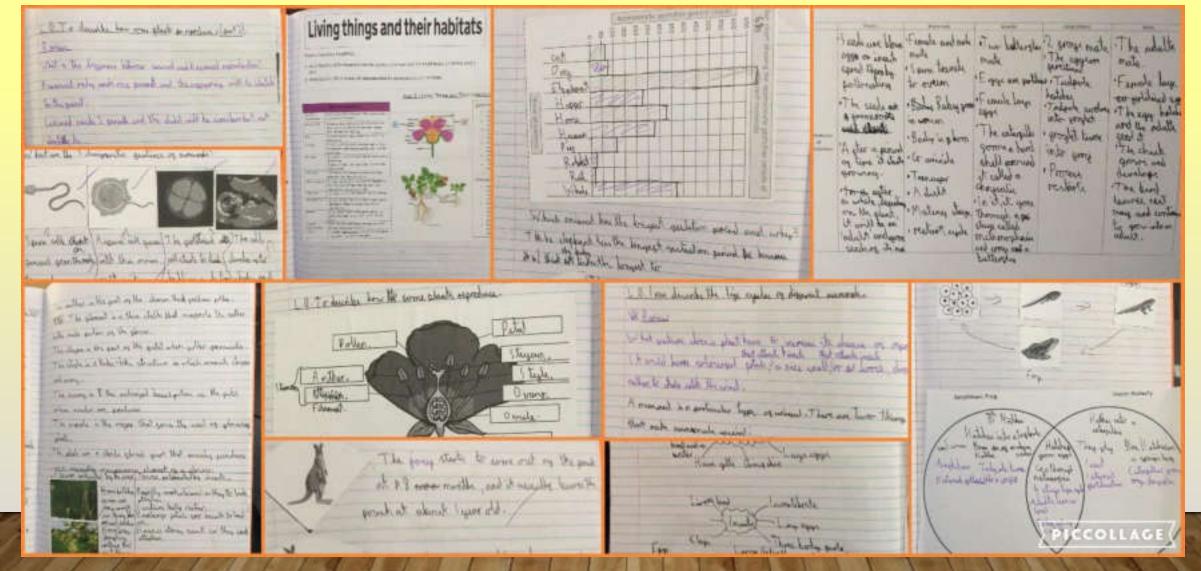
Year Five Freshwater & Yarmouth: ANIMALS INCLUDING HUMANS Lifecycles



Year Five Shalfleet: ANIMALS INCLUDING HUMANS Lifecycles



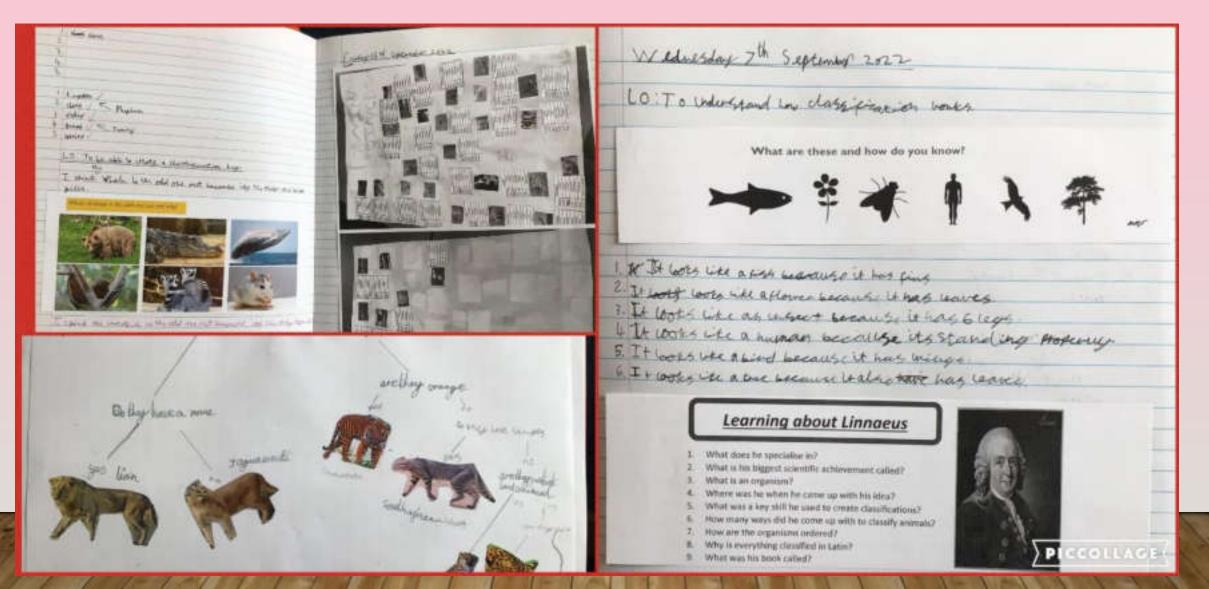
Year Five Shalfleet: Living Things and Their Habitats



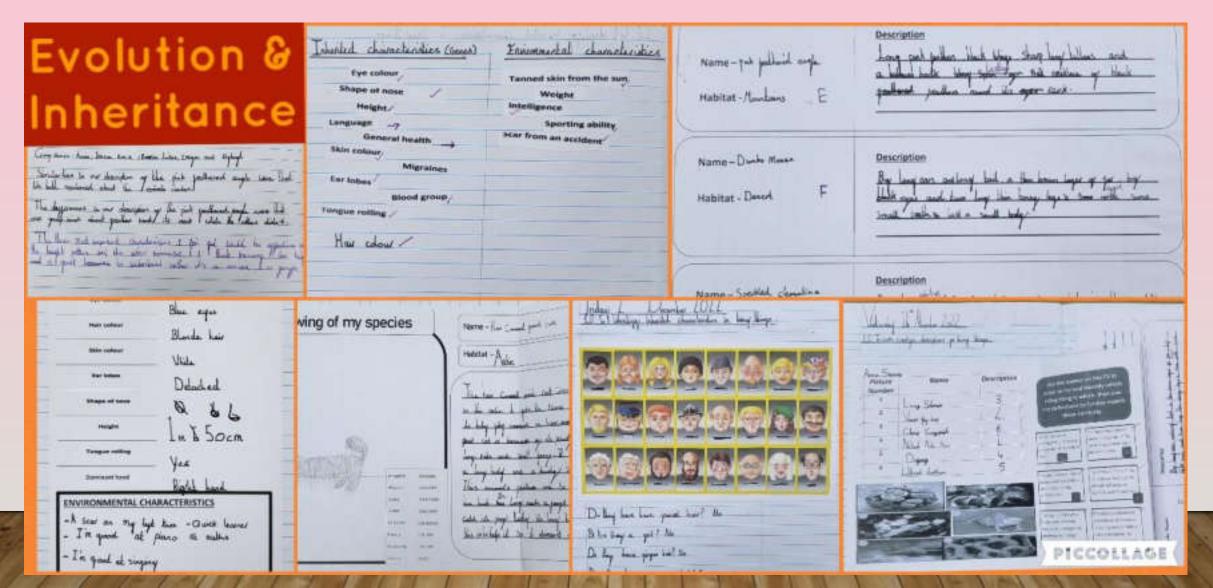
SCIENCE IN YEAR 6

- Evolution and inheritance
- Living things and their habitats
- Animals including humans
- Electricity
- Light

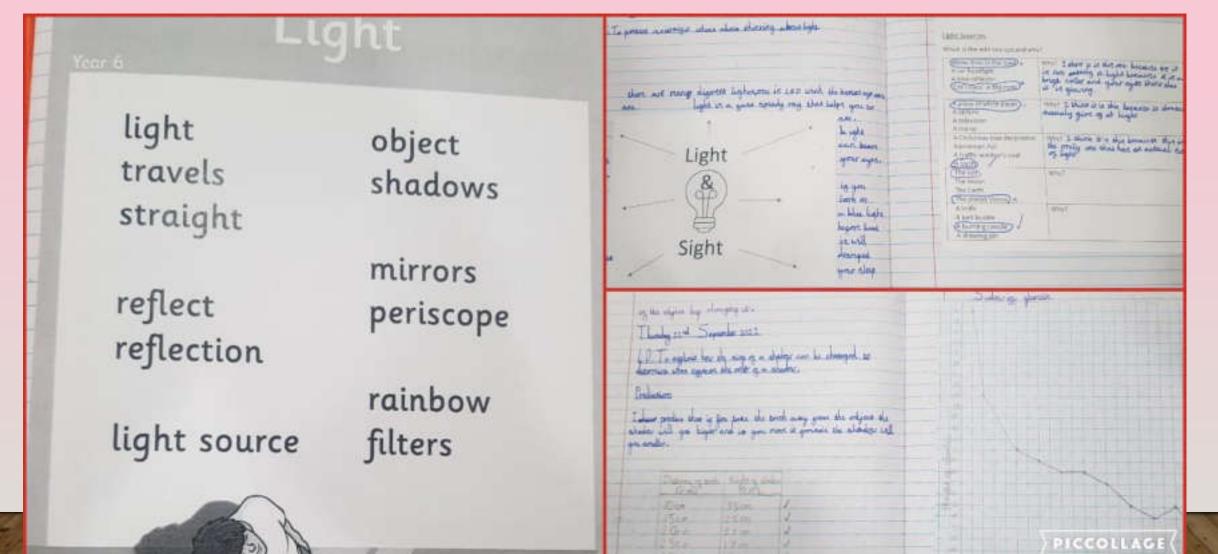
Year Six Yarmouth: Evolution and Inheritance



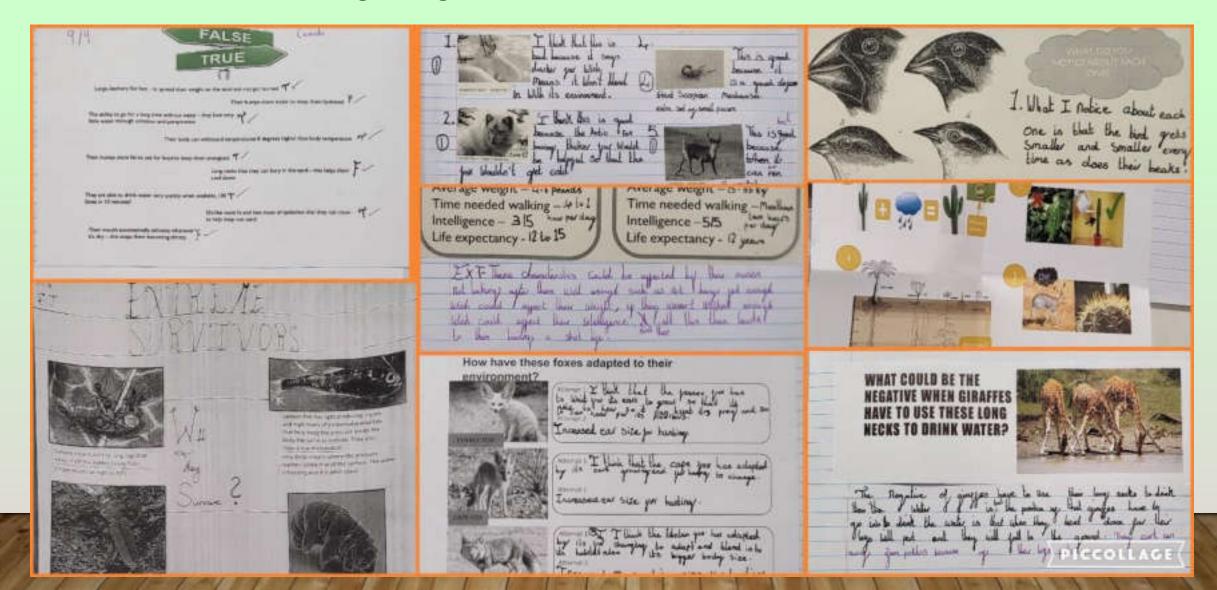
Year Six Yarmouth: Evolution and Inheritance and All Living Things and Their Habitats



Year Six Shalfleet:



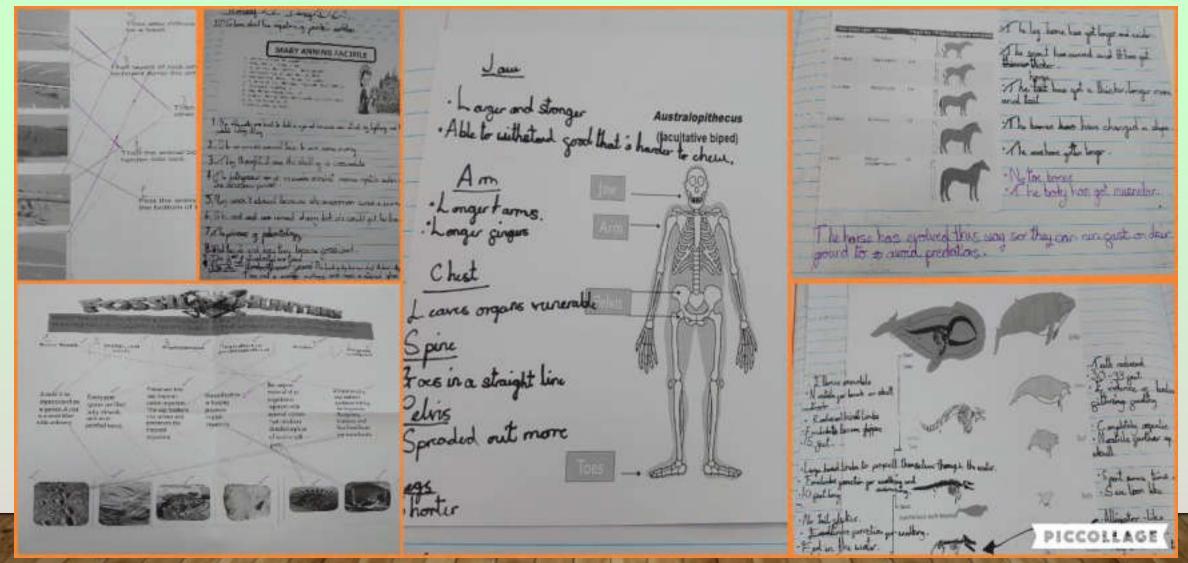
Year Six Yarmouth: Living Things and Their Habitats - classification



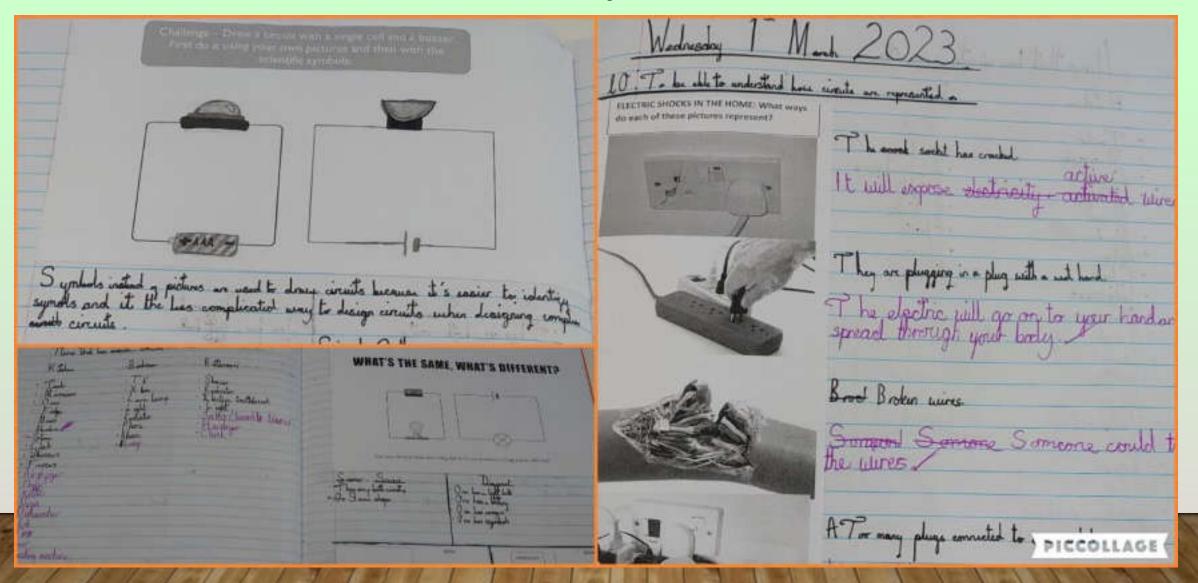
Year Six Shalfleet: Living Things and Their Habitats - Classification



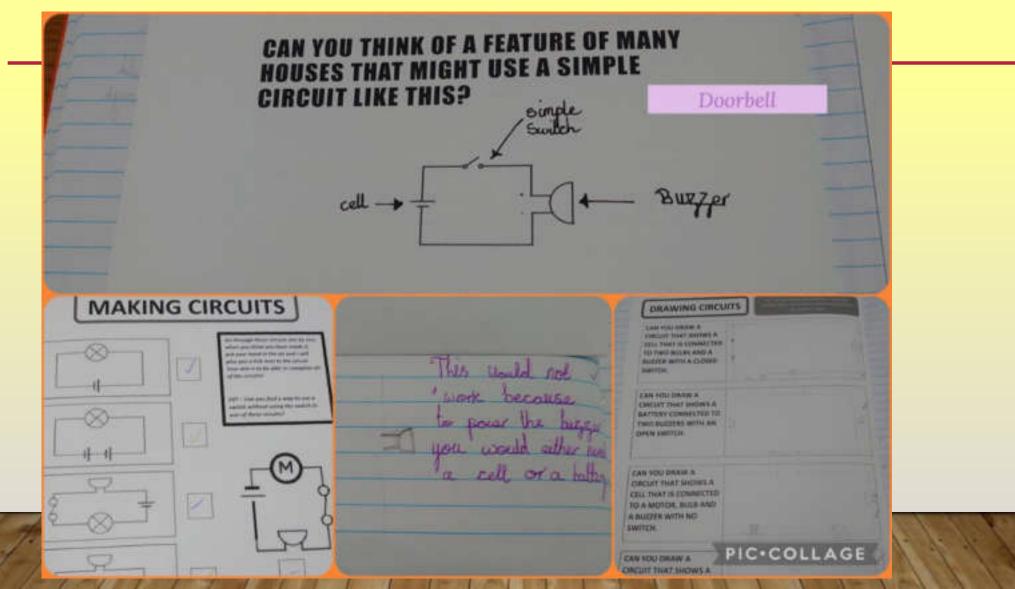
Year Six Yarmouth



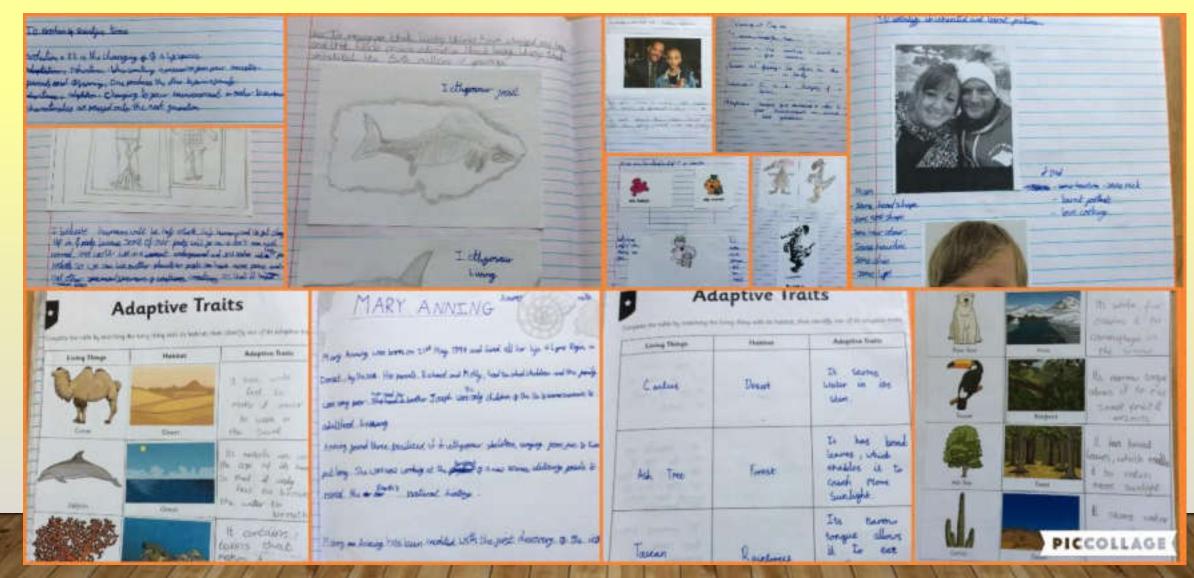
Year Six Freshwater and Yarmouth: Electricity



Year Six Freshwater and Yarmouth: Electricity circuits

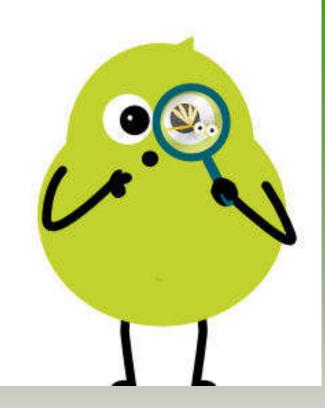


Year Six Shalfleet:



BRITISH SCIENCE WEEK 2023 CONNECTIONS







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Internet for the of the second second

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PICCOLLAGE

BRIDGE BLUNDER

This activity is designed to get you thinking about the connections between weights, forces and measures.

-

UNEST AWARDS

PICCOLLAG

Check out our video demonstration here: bisa.sc/YouTube-CREST-Bridgeblunder-demonstration

Can you build a model bridge that supports heavy weights?

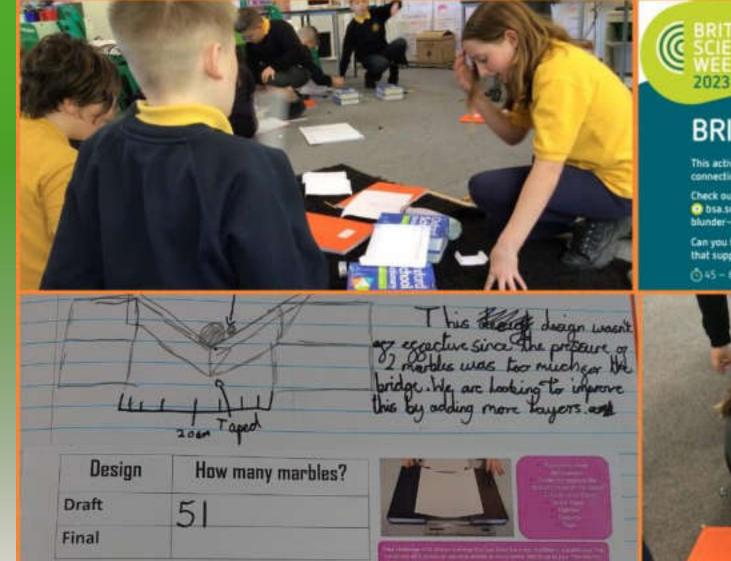
1 45 - 60 minutes

C SCIENCE

2023



British Science Week Year



+11,

Inside part



BRIDGE BLUNDER

This activity is designed to get you thinking about the connections between weights, forces and measures.

Check out our video demonstration here: bsa.sc/YouTube-CREST-Bridgeblunder-demonstration

Can you build a model bridge that supports heavy weights?

(a) 45 - 60 minutes





MONITORING THE SUBJECT:

Monitoring Report:

https://docs.google.com/document/d/1z91pdFqXB9sSzQIBY0SnWr9FQkJwc k9rEa95Qs4Jixw/edit?usp=share_link

MONITORING THE SUBJECT:

Working Scientifically Progression Stewarter taken from: Science programmes of study, key stages 1 and 2, National curriculum in England (2011) (04) Institutely for the early years foundation stage (2017) DFE						
10-1040	EVES	KS1	Lower #52	Upper KS2		
PLAN	 choose the resources they need for their chooses activities and say when they do or don't need help 	 aid simple quantities and recognizing that they can be allowined in different ways 	 ext relevent questions and using different types of scientific enquiries to answer them? init up simple practical enquiries, comparative and fair type; 	 prior different types of extentific encounters to anterest questions, including recogning well coording versibles abserved the encounters descently, equipment, with increasing acturacy and precision, taking anterest readings when appropriate 		
DO.	 Inner about similarities and differences in relation to places, objects, materials and living things make observations of animals and places exprove a variety of materials, tools and facthrouges, aspectmenting with colour, design, texture, form and function. beliect and use tachnology for particular porpose 	 intracive cleanely, using simple applyment perform simple tests identify and classify 	Inside systematic and conful observations and, where appropriate, take eccurate measurements using standard write, use a lange of equipment, including themocreates and state leggers			
RECORD	 opprosent their own ideas, thoughts and feelings through design and technology, art, music, learner, role play and stories 	 gather and record data to help in ensuring questions. 	 pather, record, classify and present data in a unitary of explosito help on arounding quantions record findings using simple scientific language, Wanning, underlied diagname, help, har cherts, and tables 	Inscord data and neurbs of increasing complexity using scientific diagrams and tablets, topicification legst, tablets, scatter graphs, bar and line graphs		
REVIEW	 talk about the features of their sum intreastate environment and how environments might vary from one another explain why some things occur and talk about changes 	 Los their ofcamentions and ineas to suggest anountry to questions. 	 Import an findings have expansion, violating unit and written explanations, displays or presentations of results and conclusions da regulation dreve simple conclusions, make predictions for new values, suggest improvements and reve further questions dentity difference, simplete or changes related to simple scientific cleas and processes use stugetforward scientific relates to answer questions or to support their findings 	 use text neurbolits to make predictions to set up further comparative and tail texts report and present findings from enquines, including conclusions, causal relationships and degree of touts in relation and and degree of touts in relation and and degree of touts in relations and and degree of touts in relation and and degree of touts in relating scientific enderty scientific enderty scientific enderce that her been used to support or refute ideas at arguments 		



PUPIL VOICE QUESTIONNAIRE

Class / Year group:	\odot		8
I enjoy science lessons.	Agree	Neutral	Disagree
My teacher enjoys science lessons.			-
Science is difficult.	-		
I do lots of thinking and talking in science.			1
I do lots of writing in science.			
I use lots of equipment in science.			
I work in small groups in science.			
I would like to do more science lessons.	-		
I can use some scientific words.	S		
You must be clever to be good at science.	2		

Extra questions:

How often do you have a science lesson?

What is science?

What do you like about science?

is there anything that you do not like about science?

What has been your favourite science lesson?

How could your science lessons be better?

NEXT STEPS IN THE SUBJECT:

2022/2023 One Page Subject Action Plan Subject – Science Subject Lead – Sylvie Poulton			FDP Links — Strategic Objective 1: Aspire Ensuring the provision of high quality curriculum Strategic Objective 3: Collaborate Sharing good practice – Federation. Seeking good practice further afield. Strategic Objective 5: Stabilise High quality CPD				
ACTION	WHY?	HOW? Success Criteria	WHO?	COST/RESOURCES?	OBJECTIVE ACHIEVED?	EVALULATION What has been the impact?	NEXT STEPS
To ensure that Science Literacy is threaded through the wider curriculum Develop knowledge organisers for whole school Promote opportunities for science to be taught within other subjects	To show clear phase progression of vocabulary, sentence stems and key questions. To ensure the profile of the subject and specific vocabulary is raised	Book checks – half termly Portfolio evidence submitted Pupil Voice Science displays	Subject leader	https://pstt.org.uk/resources/curriculum- materials https://www.planasiessment.com/plan- knowledge-matrices-teacher			
To audit the CPD needs of teachers in the federation	Supporting quality teaching of science Supporting colleagues to cover a broad science curriculum	Create teacher's subject self- evaluation Gather responses Source funding/CPD relevant to needs	Subject leader Finance SLT	https://pstt.org.uk/resources/curriculum- materials/subject-leader			

NEXT STEPS IN THE SUBJECT:

2022/2023 One Page Subject Action Plan	FDP Links –	
Subject – Science	Strategic Objective 1: Aspire Ensuring the provision of high quality curriculum Strategic Objective 3: Collaborate	
Subject Lead – Sylvie Poulton	Sharing good practice – Federation. Seeking good practice further afield. Strategic Objective 5: Stabilise High quality CPD	

ACTION	WHY?	HOW? Success Criteria	WHO?	COST/RESOURCES?	OBJECTIVE ACHIEVED?	EVALULATION What has been the impact?	NEXT STEPS
To ensure that Science Literacy is threaded through the wider curriculum Develop knowledge organisers for whole school Promote opportunities for science to be taught within other subjects	To show clear phase progression of vocabulary, sentence stems and key questions. To ensure the profile of the subject and specific vocabulary is raised	Book checks – half termly Portfolio evidence submitted Pupil Voice Science displays	Subject leader	https://pstt.ong.uk/resources/curriculum= materials https://www.planausesument.com/plan- isnowledge-matrices-teacher	Yes	Pupils are increasingly confident when talking about the subject and are able to articulate their understanding and this helps to highlight progression across the key stages. Pupil voice indicates how supportive all children have found using Knowledge Organisers.	 Integrate White Rose Science resources Develop 'Big Questions' Monitor coverage of science within wider curriculum
To audit the CPD needs of teachers in the federation	Supporting quality teaching of science Supporting colleagues to cover a broad science curriculum	Create teacher's subject self- evaluation Gather responses Source funding/CPD relevant to needs	Subject leader Finance SLT	https://ostt.ong.uk/resources/curriculum: materials/tubject-leades	Partly met	Responses indicated a need for more training regarding assessment and consistent planning/resources, Signed up for PSTT TAPS and White Rose Science, Subject lead training is diagoing	 Integrate White Rose Science assessments Training on TAPS Sign up for LA subject leader sessions