



KS2 Science Rolling Programme – Brayford and Uumberleigh Academies

Curriculum Maestro + National Curriculum

Year 1 2020 – 2021	
Misty Mountain Sierra	
Autumn 1	Autumn 2
Why does it flood? States of matter – Year 4 unit. <ul style="list-style-type: none"> Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. Living things and their habitats: <ul style="list-style-type: none"> Recognise that environments can change and that this can sometimes pose dangers to living things. 	States of matter: Where does water go? <ul style="list-style-type: none"> Identify the part played by evaporation and condensation in the water cycle and associate the rate of the evaporation with temperature.
Off with her head	
Spring 1	Spring 2
Why does a compass always point North? Properties and changes of materials –Year 5 unit. <ul style="list-style-type: none"> Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. 	Animals, including humans – Year 4 unit objectives.
Urban pioneers; Emperors and Empires; I am Warrior	
Summer 1	Summer 2
Why do cat's eyes glow at night?	Did the romans use toilet roll?

<p>Light:</p> <ul style="list-style-type: none"> ● Recognise that they need light in order to see things and that dark is the absence of light. ● Notice that light is reflected from surfaces. <p>What are sunglasses for?</p> <ul style="list-style-type: none"> ● Recognise that light from the Sun can be dangerous and that there are ways to protect their eyes. <p>Why do shadows change?</p> <ul style="list-style-type: none"> ● Recognise that shadows are formed when the light source is blocked by a solid object. ● Find patterns in the way that the size of the shadow changes. 	
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Year 2 2021 – 2022	
Firedamp and Davy lamps	
Autumn 1	Autumn 2
Forces and magnets – year 3 unit objectives	
Flow; Blue abyss	
Spring 1	Spring 2
<p>How fast does water flow?</p> <p>What is soil?</p> <p>Rocks:</p> <ul style="list-style-type: none"> ● Recognise that soils are made from rocks and organic matter. 	<p>Living things and their habitats:</p> <p>How does pollution affect habitats?</p> <ul style="list-style-type: none"> ● Recognise that environments can change and that this can sometimes pose dangers to living things. <p>Are all sea creatures the same?</p> <ul style="list-style-type: none"> ● Recognise that living things can be grouped in a variety of ways.

	<ul style="list-style-type: none"> Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.
Traders and Raiders; 1066	
Summer 1	Summer 2
How did Vikings dye their clothes? Year 5 – animals, including humans.	How far can an arrow travel? What are catapults for?

Year 3 2022 – 2023	
Fallen fields; A Child's War	
Autumn 1	Autumn 2
Electricity: Can you send a coded message? <ul style="list-style-type: none"> Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram. 	
Stargazers; Scream machine	
Spring 1	Spring 2
Forces: Why do planets have craters? <ul style="list-style-type: none"> Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the object. How clean are your hands? Forces: How to levers help us?	Properties and changes of materials: How do rockets lift off? <ul style="list-style-type: none"> Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible. This includes changes associated with burning and the action of acid on bicarbonate of soda. Earth and Space: How do we know the earth is round?

<ul style="list-style-type: none"> ● Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. <p>Earth and Space: How does the moon move?</p> <ul style="list-style-type: none"> ● Describe the movement of the Earth, and other planets, relative to the Sun in the Solar System. ● Describe the movement of the Moon relative to the Earth. 	<ul style="list-style-type: none"> ● Describe the Sun, Earth and Moon as approximately spherical bodies. <p>Can we track the sun?</p> <ul style="list-style-type: none"> ● Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. <p>Why are zip wires so fast?</p> <p>Forces: What do pulleys do?</p> <ul style="list-style-type: none"> ● Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
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Frozen Kingdom; Road trip USA!

Summer 1	Summer 2
<p>Evolution and inheritance Can we slow cooling down?</p> <ul style="list-style-type: none"> ● Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. 	<p>Evolution and inheritance How do animals stay warm?</p> <ul style="list-style-type: none"> ● Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

Year 4 2023 – 2024

Tribal tales

Autumn 1	Autumn 2
<p>Plants: Do plants have legs?</p> <ul style="list-style-type: none"> ● 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. 	<p>Sound: Year 4 unit objectives</p>

<ul style="list-style-type: none"> Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. 	
Allotment; Sow, grow and farm	
Spring 1	Spring 2
<p>Do dock leaves cure a sting? Living things and their habitats – year 4 unit objectives.</p>	<p>Living things and their habitats – year 5 unit objectives. How many potatoes can you grow? <ul style="list-style-type: none"> Describe the life process of reproduction in some plants and animals. Animals, including humans – Year 5 unit objects.</p>
Spirit (Paris Olympics); Champion; Gods and Mortals	
Summer 1	Summer 2
<p>Why did Icarus fall from the sky? Animals, including humans – Year 6 unit objectives.</p>	<p>Animals, including humans – Year 3 unit objectives.</p>