



St Martin's C of E Primary and Nursery School Learning Narrative

The Big Idea

Creating a Splash

Key Question/Mystery

(To start with and return to)

How far could you travel on fire, steam,
electricity?

How can we create a sustainable future?

Hooks for Learning

(experiences which excite, motivate and hook the children into the learning to come)

Octopus Challenge – designing a toy for a very intelligent octopus at Torquay Marine Aquarium – bonkers invention
Bubble blowing and making bubble pictures – link to Simon Thomas – rods and node sculpture
Record player zoetrope – strobe lighting
Deconstruction/reconstruction – Paul Granjon
Making clouds
Glowing Bouncy Egg experiment
Creating an Eco-house for the school
Creating a new world in our corridor

<p style="text-align: center;">Being Happy <i>Engagement</i></p>	<p style="text-align: center;">Being Stretched <i>Motivation</i></p>	<p style="text-align: center;">Being Excited About Not Knowing</p>
<p>Finding out about the octopus at Torquary Aquarium who needs another problem solving toy</p>	<p>Designing the problem solving toy on paper and possibly making it too. Properties of materials – what materials will be best to use?</p>	<p><i>Thinking/learning Process</i></p> <p>Challenge themselves to think like an octopus – what can it do already? What would it like to do?</p>
<p>Ripple effect; pebble in a pond; sand;</p>	<p>How can we record the measurement of ripple effect – slow motion recording</p>	<p>Can we come up with questions to investigate scientifically to develop our understanding?</p>
<p>Bubble paintings/rods and nodes sculptures</p>	<p>Platonic solids; exploring properties of solids;</p>	<p>creating strength in structures – looking at structures which do not easily collapse; controlled demolitions</p>
<p>Pixar Zoetrope – watch animations being made by strobe</p>	<p>Create their own zoetrope/animation/ti me lapse photography Create music for the zoetrope imagery</p>	<p>reflecting on the process; what was hard; how do we overcome the difficulties; what skills did we employ;</p>
<p>Paul Granjon – local artist – uses everyday objects to create robots/ mechanical things – bonkers inventions – cf Wallace and Gromit</p>	<p>To invent something with a purpose</p>	<p>Using solar power or other forms of energy to enhance bonkers inventions</p>

Opportunities for Reflection

Key Skills

Reading

Writing

Number

Opportunities for Outdoor Learning

Creating an Eco-house: working in the forest children will contribute towards the design of an eco-friendly building that will be built in the forest area.

Reflection on Learning

Engagement

Motivation

Thinking

Cross-Curricular Links (referencing Primary Curriculum/EYFS)

Literacy	Dinosaurs and all that rubbish – Michael Foreman The Tin Forest George’s Marvellous Medicine Literacy Shed – Girl and the Robot Cloudy Lesson Wallace and Gromit – Cracking Contraption Manual How the Whale Became
Maths	Links between volume ; ratio and proportion linked to potions and scale models Number patterns; platonic solids; 3 d nets; shape and space; Fibonacci; Measuring accurately

<p>Science</p>	<p>Pupils y5 should be taught to:</p> <p>Forces</p> <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 falling object; identify the effects of air resistance, water resistance and friction, that act between moving surfaces; recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. • Materials and their properties • 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 ;know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution ;use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating ;give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic <ul style="list-style-type: none"> *demonstrate that dissolving, mixing and changes of state are reversible changes *explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.
<p>RE</p>	<p>What do people believe about life? Theme: Beliefs and Questions/The Journey of Life and Death</p> <p>The creation story: learn about the Christian creation story and compare to creation stories from other countries and religions.</p>
<p>PE</p>	<p>Striking and Fielding (unit 2) Dance – in response to The Planets</p>

The Arts	Simon Thomas – bubble art and links with maths Peter Randall Page – sculptures about patterns in nature Eadweard Muybridge – horse’s hooves off the ground at same time – link to zoetrope; time lapse photography
Humanities	History of our understanding of Earth from being flat to being round, to being the centre of the universe, to the sun being the centre of the universe – links with Mayans; Incas; Egyptians
<p data-bbox="240 621 1344 678">Identify 8-10 writing outcomes for the term:</p> <ul data-bbox="305 699 1406 1535" style="list-style-type: none"> <li data-bbox="305 699 818 747">• A transformation story <li data-bbox="305 768 1406 930">• Aesop’s Fables – create own fable based on what happens if we ruin this planet (Dinosaurs and all that Rubbish) <li data-bbox="305 951 1390 999">• Instructions for How to Make a toy for an octopus <li data-bbox="305 1020 878 1068">• Poem on a created world <li data-bbox="305 1089 1003 1138">• Letters to invite/letters to thank <li data-bbox="305 1159 1365 1270">• Persuasive writing to get people to recycle; turn lights off; use solar energy; web based resource <li data-bbox="305 1291 899 1339">• Write own creation stories <li data-bbox="305 1360 1300 1459">• Elicitation from Literacy Shed Girl and Robot; Window <li data-bbox="305 1480 1049 1535">• Instruction Manual for a zoetrope 	

Every class will use ‘Buzz Boards’ to encourage questioning and reflection and will produce a ‘Learning Story’ for each theme. The ‘Learning Story’ will tell the story of learning, both in terms of content

and the way in which learning happened. Children will be encouraged to engage with the learning stories, the stories can be created in physically or electronically.