


Subject: Science Year: 5 Term: Summer 1	Half Termly Theme: Fantasy Worlds Preparing for Adulthood thematic Overview: Awe and wonder Materials: Using and changing materials Link to Prior Learning: Year 5 Autumn 2	
Context:	In this unit pupils will have the opportunity to investigate how they can change different solid materials e.g. by twisting, squashing, bending and stretching. Pupils can continue to explore the steps needed to carry out experiments and could experiment with different materials to see which ones have the same properties e.g. can bend. Pupils could use the results of their experiments to help them decide the different types of materials to use to build a fantasy world. It could involve materials such as playdough, elastic, sand, water, paint, cardboard etc. and they can learn about which material is best for the object they want to make. It will give them an opportunity to explore the materials and learn the scientific vocabulary of the properties of these materials such as bendy, twisty, stretchy, squashy, shiny etc.	
Knowledge <i>(Includes exploration opportunities for early learners – based on the 5 lenses of engagement)</i>	To explore sensory sessions such as attention autism sessions, tuff tray sessions and feely bag sessions using different types of materials and to use symbols and the vocabulary of the property such as hard, soft, heavy, light etc. To know some common everyday materials metal, glass, plastic, wood, rubber, cotton, fabric, paper To know which materials will be appropriate for the purpose I need them for To know how to group different materials based on their properties To know at least one way of recording information/ data – e.g. pictograms To know at least 3 of the main steps of an experiment (observe, question, predict, experiment/ method/ results) To know how to record an experiment To know that the result/ conclusion of my experiment can inform what I do next	
Skills <i>Please see subject specific skills ladders for further detail and personalized skills</i>	All: To use a range of materials in different ways in order to co-create an object, art piece, scene or fantasy world Most: To choose at least 2 materials to change based on my understanding of their properties e.g. find 1 you can twist, find 1 you can stretch Some: To carry out an experiment to find the best material to use for a given purpose and record my results (using a given template)	
New Vocabulary:	metal, hard, plastic, squashy, bendy, paper, bendy, thin, wood, hard, sitting, fabric, light, heavy, properties, soft, strong, weak, compare, group, same, different, sand, water, playdough, fantasy, world, colours, unusual,	
Possible Adaptations:	Exploring of materials that will contribute to making a fantast tuff tray vs using 2 or more materials for their properties and unusual ways to make my fantasy world vs comparing at least two different types of materials for the fantasy world vs grouping at least two different materials vs grouping more than two materials vs comparing more than two different materials vs making pictograms that show tables of comparison and grouping of materials I could use to build a fantasy world	
Curriculum Links: e.g. National Curriculum /PfA/ Careers/ SMSC/ Financial	National Curriculum Year 1 Science “identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses” Development matters: “ Explore collections of materials with similar and/or different properties..”	

Education/ Rights Respecting Schools	<p>Explicit Link to Half Termly Theme – Materials- Using materials in unusual ways to make a fantasy world- looking at the properties and seeing which one is suitable for the fantasy world.</p> <p>UNICEF children’s rights- Article 17- You have the right to collect information from the media – radios, newspapers, television, etc – from all around the world, Article 29 “You have the right to education which tries to enhance your life and knowledge” Article 27- “ You have the right to a good enough standard of living .This means you should have food, clothes and a place to live and to use your imagination.”</p> <p>PFA: To be able to know that you can use materials with the right properties - this will help when decorating a home, playing games etc.</p>
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