## Al Wataniya International School

PO Box 22698 Doha, Qatar T: (+974) 4017-4930

info@awisdoha.com www.awisdoha.com



المدرسة الوطنية الدولية

صندوق بريد 22698 الدوحة - قطر هاتف 40174930 info@awisdoha.com www.awisdoha.com

## Material World

Year 3 Learning Journey

Start Date:	Sunday 29 October	Unit Length:	7 weeks
	<ul> <li>Links to Host Country (Qa</li> <li>What materials are Qatar?</li> </ul>		During this unit our students will be: Collaborators Thinkers
Material World	1		
We will be learning about the hundreds of different materials that are used to make everyday objects. We			
will need to be scientists to test the properties of different materials. Some materials absorb water; some			
are magnetic, and some allow electricity to pass through them. But with so many different materials to			
choose from, how do we decide which to use?			
Entry Point			
For the Entry Point, children will use a variety of materials to create slime. They will think about how the			
texture of the slime would change by adding different materials.			
Knowledge Harvest During the Knowledge Harvest, children will look at the different materials that come together to make a			
product. We will look at a bicycle and the different materials that it is made from.			
Science			
<ul> <li>We will carry out an experiment to find out what materials are absorbent.</li> </ul>			
• We will investigate which materials make the strongest carrier bag.			
• As a class we will find out about magnetism and what objects are magnetic.			
Children will work in groups to create electrical circuits.			
• We will use the circuits to test conductivity.			
<ul> <li>We will find out what materials can be used as heat conductors.</li> </ul>			
<ul> <li>Children will research the states of matter.</li> </ul>			
<ul> <li>We will find out how materials can change to different states of matter.</li> </ul>			
International			
Children will research what materials are produced in Qatar.			
• We will find out which countries are the main producers of different materials.			
We will find out about natural and manmade materials.			
We will find out which materials can be recycled and how.			
Design, Technology & Innovation			
<ul> <li>Children will think about different materials to design a bicycle accessory.</li> <li>Using their designs, children will create a prototype.</li> </ul>			
<ul> <li>Using their designs, child</li> </ul>	aren will create a prototype		

Our vision is to nurture and empower successful global leaders through inspired learning.

## **Exit Point**

For our Exit Point, children will set up a 'Marvellous Materials' exhibition. We will present our findings from the different experiments we have carried out about the different properties of materials.

## Assessment Science 2.06 Be able to plan an investigation changing only one independent variable. Mastering Secure Developing Emerging I can: I can: I can: I can: • Think about what I want • Ask a question and • Ask questions that we • Choose what information I to find out and plan safe suggest how to could investigate. need so that we can investigations to do this. investigate it. ٠ Ask questions about the answer the question. Talk about whether an Plan an investigation world around us. • Ask questions about the investigation is fair or not choosing the thing that Talk about what science we have been and explain why. will be changed information we can collect learning. (independent variables). Explain the difference that will help us to answer • Talk about what can be between independent • Explain the connection a question. tested and investigated. and dependent variable. between the thing that • Find answers to questions • Fill in the blanks on a will change and the • Talk about how the by testing things and written plan for how to information that we are independent variable is collecting information. investigate a question. collecting. linked to the dependent Talk and/or write about variable and the Talk about why it is • the controlled variables, importance of this in an important to only change the things to keep the investigation. one thing at a time, the same when we are independent variable, investigating. when we are investigating a question. Choose which are the right things to change first because they will help to answer the question that we are

investigating.