

Subject: Science - Understanding the World		Year: Reception	
Spring 1: Light and Dark / Space / Winter			
To begin this unit, the children should have already learnt:		The learning in this unit will prepare the children to learn these things in the future:	
To explore and respond to different natural phenomena in their setting Leaves fall from the trees in Winter		To describe the movement of the Earth, and other planets, relative to the sun in the solar system(Y5) Describe the movement of the moon relative to the Earth (Y5) Describe the sun, Earth and moon relative to the Earth (Y5)	
<u>Key Enquiry Question</u>		<u>The Big Idea:</u>	
Why is it dark at night? What is it like in space?		Natural processes To explore the world around me	
To achieve ARE, pupils will need to be secure in the following knowledge:			
<u>By the end of this unit, children will know:</u>		<u>By the end of this unit, children will be able to:</u>	
<ul style="list-style-type: none"> • It is warmer and brighter when the Sun is shining than when it is behind clouds • They can see the moon at night and sometimes in the day • They can only see stars at night • We live on planet Earth and that there are other planets in the solar system • They can make shadows using their bodies both outside using the sun and inside using torches • Putting their hands in front of light source creates a shadow • Light can travel through transparent objects • Talk about natural materials they explore using their senses • Winter is one of the four seasons in the year • It is cold where we live in Winter • When water freezes it turns into ice • Not many things grow in Winter (where we live) 		<ul style="list-style-type: none"> • Use their senses to describe how the sun feels when they are outside • Identify environmental changes that happen in Winter • Explore the natural world around them • Talk about what they can see and hear in the daytime and at night • Name the planet they live on and some other planet names • Point out shadows outside • Explain when shadows can be seen outside • Identify the light source and objects making a shadow • Make a shadow puppet using their hands • Explore the natural world around them • Describe what they see, feel and hear outside • Observe the changes water makes when it freezes 	
Vocabulary:		Resources including books:	

Freeze Sun Moon Earth Planet Space Astronaut Shadow Transparent (see through) Opaque (non-see through)	Twinkl Twinkl Little Star... Whatever next! By Jill Murphy How to catch a star by Oliver Jeffers Youtube – journey to the Earth and Moon Suddenly by Colin McNaughton Where is the dragon? By Leo Timmers Torches Brrr a book of Winter
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Spring 2: Places/Travel/Spring	
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To begin this unit, the children should have already learnt: How things work Explore and talk about different forces they can feel Talk about the differences between materials and changes they notice	The learning in this unit will prepare the children to learn these things in the future: Compare how things move on different surfaces Observe how magnets attract or repel each other and attract some materials and not others Compare and group together a variety of everyday materials Describe magnets as having 2 poles The force of gravity Effects of air resistance, water resistance and friction
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Key Enquiry Question Are all places the same? How can we get there?	The Big Idea: Exploring the world around me Forces
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To achieve ARE, pupils will need to be secure in the following knowledge:	
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By the end of this unit, children will know: <ul style="list-style-type: none"> • That some objects float and some objects sink when in water • We can make things move by pushing them • That things will fall to the ground if dropped • How objects move in air • Talk about natural materials they explore using their senses • Animals live in different environments 	By the end of this unit, children will be able to: <ul style="list-style-type: none"> • Talk about how they can adapt objects to make them float or sink • Make cars move by pushing them or putting them down ramps • Make a parachute for a toy • Move an object using wind or air power • Explore the natural world around them • Describe what they see, feel and hear outside
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<ul style="list-style-type: none"> • Spring is one of the four seasons of the year • Lots of baby animals and birds are born in Spring • The weather gets warmer in Spring • Leaves begin to grow on the trees (buds) • Flowers begin to grow and on trees (blossom) 	<ul style="list-style-type: none"> • Name animals that live in hot and cold places • Match animals and their babies • Identify signs of Spring
<p>Vocabulary:</p> <p>Float Sink Air Force Blossom Bud</p>	<p>Resources including books:</p> <p>Parachute toys Marble Run Bubble Pin wheels Feathers, scarves Toy boats, water Kites Cars Ramps Mr Gumpys Outing – John Burningham Blown Away by Rob Biddulph Who sank the boat by Pamela Allen Gingerbread Man (making boats to cross the river)</p>