

Y5 Earth and Space

Learning Challenge	ON THE WAY	EXPECTED	ABOVE EXPECTED	Location of work T=Topic book L= Literacy book
<p>Can I describe how the earth orbits the sun and the moon orbits the earth?</p> <p>Can I explain how the planets orbit the sun?</p>	<p>I can make a simple model to demonstrate how the earth orbits the sun and the moon orbits the earth.</p> <p>I can explain that the planets take different amounts of time to orbit the sun.</p>	<p>I can explain in more detail how the earth orbits the sun and the moon orbits the earth and make a model to represent this.</p> <p>I can state how long it takes different planets to orbit the sun.</p>	<p>I can explain in a lot of detail how the earth orbits the sun and the moon orbits the earth and make a model to represent this.</p> <p>I can describe in detail and give lots of fact about the planets orbiting the sun.</p>	
<p>Can I explain how day/night happens?</p>	<p>I can explain in simple terms how day and night occurs.</p>	<p>I can explain how day and night occurs using scientific vocabulary.</p>	<p>I can explain in detail how day and night occurs using scientific vocabulary.</p>	
<p>Can I describe the phases of the moon?</p>	<p>I can describe in general the different phases of the moon.</p>	<p>I can arrange oreo cookies in order of the moon phases.</p>	<p>I can confidently explain the moon phases using oreo cookies.</p>	
<p>Can I describe the moon landing in 1969 and form my own opinion whether it was real?</p>	<p>I can research basic facts on the internet about the moon landing and explain what happened.</p>	<p>I can research more detailed information on the moon landings and can form and express my own opinion whether it was fact or fiction.</p>	<p>I can research detailed information and confidently form an opinion using evidence/ research to back up my own opinion.</p>	
<p>Can I explain what a force is and give examples?</p>	<p>I can give a simple explanation of what a force is.</p>	<p>I can label and name all the forces acting on objects .</p>	<p>I can confidently label and name all the forces acting on the objects.</p>	
<p>Can I describe what the force gravity and air resistance is and how they work against each other?</p> <p>Can I demonstrate air resistance and gravity by making a parachute?</p>	<p>I am beginning to understand what gravity and air resistance is</p> <p>I can make a parachute with support.</p>	<p>I can describe how air resistance as a force against gravity and demonstrate this in an experiment.</p> <p>I can independently make a parachute and describe how air resistance is working against gravity. I can comment on which parachute takes the longest to fall and why.</p>	<p>I can confidently describe how air resistance as a force against gravity and demonstrate this in an experiment with my own conclusion.</p> <p>I can confidently make a parachute and describe in detail how air resistance is working against gravity and reflect on the results considering different surface areas.</p>	
<p>Can I make a plastic bottle rocket and test by launching?</p>	<p>With support I can make a plastic bottle rocket and launch it.</p>	<p>I can independently make a plastic bottle rocket and launch it and identify and describe which forces are involved.</p>	<p>I can independently make a plastic bottle rocket and launch it and identify and describe which forces are involved and how they are working against each other and give other examples of when this happens.</p>	
<p>Can I describe how friction works?</p>	<p>I can give the meaning of friction.</p> <p>I can state which surfaces are slippery and which give most friction.</p>	<p>I can describe what friction is and give examples of when it occurs.</p> <p>I can conclude which surface a car /space shuttle gives most friction and why.</p>	<p>I can confidently describe what friction is and give lots of detailed examples.</p> <p>I can confidently conclude which surface a car /space shuttle gives most friction and why</p>	