

Year 5 NC - pupils should be taught to:	How we do this in Year 5	Year 5 Vocabulary
<p>Describe the Sun, Earth and Moon as approximately spherical bodies</p> <p><u>How working scientifically can be met</u></p> <ul style="list-style-type: none"> identifying scientific evidence 	<p>Ideas and Evidence: Show the class a covered shape (it's a trapezium). What shape is this? What is your evidence? Repeat questions while gradually uncovering the shape from right to left until it is fully uncovered. Discuss how their ideas changed the more evidence they had and state this is also the case for scientific ideas.</p> <p>Shape Of The Earth: Take the whole class out to the playground. What shape is the Earth? How do you know? What shape does it look like to you? Expect children to say sphere but discuss the fact that there is no evidence of that when you look around them. What does the evidence of your eyes tell you?</p> <p>Flat Earth Versus Spherical Earth: Children read aloud a different evidence card to their group. Children discuss and sort the evidence between that which supports the idea that the Earth is flat and the evidence that supports the idea that the Earth is a sphere.</p> <p>Identify Evidence: Children feedback from the group activity. Which idea has the most support? Why? What do you think based on the evidence? What Shape is the Earth?</p> <p>Sun and Moon: What about the shape of the Sun and the Moon? Go through the explanation.</p>	<p>Earth, Sun, Moon, sphere, circle, evidence, flat, round.</p>
<p>Describe the movement of the Earth, and other planets, relative to the Sun in the solar system</p> <p><u>How working scientifically can be met</u></p> <ul style="list-style-type: none"> name and describe identify scientific evidence explain 	<p>Discuss any existing ideas about the solar system focusing on the following questions: Can you name the planets? Do you know the order of the planets? Where have you got your ideas from?</p> <p>Meet The Planets - Solar System Speed Dating! Give each child a fact card. Make it clear which planets will stay sitting and which will rotate around the room. Each child has 5 minutes with each of the other planets to discuss and compare facts about the planets. Then children to create a planetary poster. Children swap posters and peer assess. Children write two things they liked and one thing that can be improved.</p> <p>Orbit or Rotate: What is the difference? In pairs, children to discuss and demonstrate the difference to each other. Feedback to whole class and ask a pair to model.</p>	<p>Star, sun, planet, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.</p> <p>Star, sun, planet, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, orbit, rotate, heliocentric, geocentric.</p>

	<p>the globe and complete the prediction table. Children make predictions. How can we check if our predictions are correct? Where would we get the information from? Children feedback and then discuss reliability of sources and feasibility of using a source of information. Time Zones: Model how to use the time zones map to calculate times in other countries. Conclusion: Were your predictions correct? Why? Why not? What was the relationship between the time of day in one place and another with respect to distance? All children to write a conclusion</p>	
<p>Describe the movement of the Moon relative to the Earth</p>	<p>Orbiting Objects: We know that the Earth orbits the Sun. Does it move in any other type of way? Demonstrate rotation of the Earth on its axis using a globe. Are there any objects that orbit the Earth? Satellites, International Space Station (ISS), Moon. Forces: Why don't they just float away? Which force keeps objects orbiting? Briefly discuss gravity as an attracting force and why it is important. Moon Movement: Show video of moon orbiting the Earth. How does the moon move? Does it rotate? Why the moon is only lit from one side? Children to make models and then present their models and demonstrate their understanding of the movement of the moon.</p>	<p>Rotate, orbit, axis, face, Sun, Earth, Moon</p>
<p><u>How working scientifically can be met</u></p> <ul style="list-style-type: none"> explain 		

