## Mountbatten Primary School Curriculum knowledge



Topic: Earth and Space (Science)

Term: Autumn 1

Year Group: 5

Topic: Earth and Space (Science)	remi. Autumn i	rear Group: 5
NC OBJECTIVES	KEY KNOWLEDO	GE AND VOCABULARY
<ul> <li>describe the movement of the Earth, and other planets, relative to the Sun in the</li> <li>solar system</li> <li>describe the movement of the Moon relative to the Earth</li> <li>describe the Sun, Earth and Moon as approximately spherical bodies</li> <li>use the idea of the Earth's rotation to explain day and night and the apparent</li> <li>movement of the sun across the sky.</li> <li>Learn that the Sun is a star at the centre of our solar system and that is has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune</li> <li>Learn about the dangers of looking directly at the sun, even when wearing dark glasses</li> <li>Find out about the way that ides about the solar system have developed</li> <li>Consider the work of scientists such as Ptolemy, Alhazen and Copernicus</li> <li>Working Scientifically</li> <li>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</li> <li>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</li> <li>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</li> <li>using test results to make predictions to set up further comparative and fair tests</li> <li>reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations</li> <li>Identifying scientific evidence that has been used to support or refute ideas or arguments.</li> </ul>	<ul> <li>Know the names of the 8 planets in the</li> <li>Know that the planets in order are Mercand Neptune</li> <li>Know the properties of the planets in the</li> <li>Know that Mercury, Venus, Earth and Mercal and rock, they are heavy, do not hee in the Know that Jupiter, Saturn, Uranus and Mercal and rock, they are heavy, do not hee in the interest of the planet anymore.</li> <li>Know that Pluto is not a planet anymore.</li> <li>Know that Pluto is not a planet anymore.</li> <li>Know the movement of Earth and other.</li> <li>Know that people now believe the geodexplain the movement of Earth and the explain the movement of Earth and the explain the movement of Earth and the explain the geocentric model believed the Earth stayed still.</li> <li>Know that the geocentric model places in planets orbit the Sun.</li> <li>Know that Ptolemy was an Ancient Green the Know that Alhazen was an Islamic School.</li> <li>Know that Copernicus challenged the the model.</li> <li>Know that the Earth orbits the Sun and the Know that the Earth rotates on its axis.</li> <li>Know that although the Sun appears to is rotating.</li> </ul>	the of the Solar System thy at the sun, even when wearing dark glasses to Solar System the Solar System the Solar System Mars are all rocky planets as they are mostly made up of have rings and have very few moons Neptune are mostly made up of gases (helium and made up of rock and metal. They move more quickly, umber of moons the is known as a dwarf planet the planets in the Solar System relative to the Suncentric model rather than the heliocentric model to other planets the Sun at the centre of the Solar System and that the sek and believed in the heliocentric model olar and questioned what Ptolemy thought thinking of others and moved towards the geocentric  If this takes 365 ¼ days and this takes 24 hours tis causes day and night be moving through the sky, it is actually the Earth that means that day and night happen at different times  Tones around the world