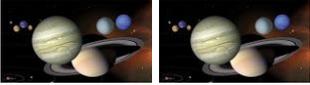


SCIENCE BADGE - ASTRONOMY



You will need to complete 12 to get this badge

 <p>Collect 12 interesting 'SUN' facts Present them in a 'SUN' 'SPACE' cool way</p>	 <p>Describe, using a poster or a chart, the life cycle of stars like the sun.</p>
 <p>Explain in simple terms the difference between a solar and lunar eclipse. Include a labelled diagram</p>	 <p>Write about planetary nebulae, novae, and supernovae.</p>
 <p>Write a report about a recent or coming astronomical event. No more than one side of an A4 sheet</p>	 <p>Write an explanation of how you can find south by using the stars.</p>
  <p>Observe the moon and develop a diagram of the phases of the moon. Try to observe at least every second day.</p>	   <p>Make a scale model of the solar system.</p>    <p>Using a shadow stick record the length of its shadow every hour over one day. Write a report on what you observe.</p>
  <p>Each day for two weeks record from newspaper the times of sunset and moonset. Explain the changes you</p>	 <p>Write a fiction story about living in a space station. No more than 2 sides of an A4 sheet</p>

<p>observe.</p>	
 <p>Make a poster which explains the difference between comets, meteors, asteroids and meteorites.</p>	 <p>Find out about a famous astronomer, perhaps Galileo, Newton, Copernicus or Kepler. Write a brief account of the person's life.</p>
 <p>Some stars vary their brightness. Find out what they are and write a paragraph about them.</p>	 <p>Choose a planet in our Solar system - Bullet point what you would need to do to live/survive on that planet</p>
 <p>Draw diagrams showing the difference between reflecting and refracting telescopes.</p>	 <p>Record the position where the sun sets on the horizon over a period of one month. Mark the position on a map of your horizon.</p>
 <p>Sketch and name the constellations that contain the stars Alpha Centauri, Canopus, Achernar and Fomalhaut. Label the 4 stars.</p>	 <p>Explain why the sun appears to be moving across the sky.</p>
 <p>Name each of the 9 known planets in the solar system, and describe the main difference between planets and stars.</p>	 <p>Write down the meanings of light year, astronomical unit, escape velocity.</p>
 <p>Write short notes on the following: solar system, constellations, star clusters, galaxies, the universe.</p>	

