

Science Targets - Grade 5

Earth and Space Science	Environmental Science	History and Nature	Life Science	Physical Science	Science as a Process
<p>___ I can identify the planets in the solar system. I can name their relative sizes and basic characteristics.</p>		<p>___ I can explain that current scientific knowledge and understanding guide scientific investigation.</p>		<p>___ I can make mixtures and solutions with different solid materials and water.</p>	<p>___ I can ask questions and use facts to explain my answers.</p>
<p>___ I can explain the stages in the life cycle of a star.</p>		<p>___ I can recognize and explain that clear communication or methods, findings, and critical review is an essential part of doing science.</p>		<p>___ I can separate mixtures and solutions using screens, filters, and evaporation.</p>	<p>___ I can recognize that clear communication of methods, findings and critical review is an essential part of doing science.</p>
<p>___ I can recognize that the stars in the sky appear to slowly move from east to west.</p>		<p>___ I can explain why scientists often repeat investigations to be sure of the results.</p>		<p>___ I can measure solids and liquids.</p>	<p>___ I can observe, compare and contrast scientific findings .</p>
<p>___ I can identify the sun as an average sized star and that the other stars are so far away that they look like points of light.</p>		<p>___ I can perform a controlled experiment using a specific step-by-step procedure and present conclusions supported by the evidence.</p>		<p>___ I can compare the mass of a mixture to the mass of its parts.</p>	<p>___ I can conduct controlled experiments to find out how variables affect outcomes.</p>
<p>___ I can recognize that telescopes magnify distant objects in the sky and dramatically increase the number of stars we can see.</p>		<p>___ I can observe that when a science investigation or experiment is repeated, a similar result is expected.</p>		<p>___ I can investigate the behavior of solid materials in water.</p>	<p>___ I can compare and contrast characteristics within a system.</p>
<p>___ I can explain that the universe consists of many billions of galaxies, each containing many billions of stars.</p>		<p>___ I can describe different kinds of work done in science and technology.</p>		<p>___ I can recognize and explain saturation.</p>	<p>___ I can use appropriate metric measurement and tools to collect and organize data.</p>

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<p>___ I can recognize that the sun is medium sized star and the closest star to Earth. I can explain that it is the central and largest body in the solar system and is one of billions of stars in the Milky Way Galaxy.</p>		<p>___ I can distinguish between scientific evidence and personal opinion.</p>		<p>___ I can compare the quantities of two solid materials required to saturate 50 mL of water.</p>	<p>___ I can make predictions and test them using a controlled experiments.</p>
		<p>___ I can explain why scientists often repeat investigations to be sure of the results.</p>		<p>___ I can compare the solubility of materials in water.</p>	<p>___ I can identify variables that might affect the outcome of an experiment.</p>
		<p>___ I can identify men and women of various backgrounds who have been involved in science and technology, both past and present.</p>		<p>___ I can measure the volumes of solids and liquids.</p>	<p>___ I can draw a conclusion based on observations and experiments.</p>
		<p>___ I can distinguish among observation, prediction and inference.</p>		<p>___ I can explain the concept of concentration.</p>	
		<p>___ I can present and explain data and findings from controlled experiments using multiple representations including tables, graphs, and demonstrations.</p>		<p>___ I can determine the relative concentrations of solutions.</p>	
		<p>___ I can explain why scientists may work in teams or work alone, can collaborate and, at times, compete.</p>			