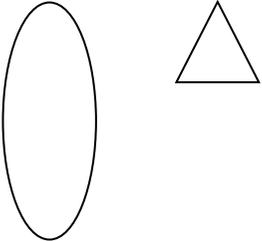


Thinker's Keys



LI I can use and apply thinking keys to develop and extend my knowledge of The Solar System

Ryan's Thinking Keys

<p>The Reverse Listing Key</p> <p>Place words such as cannot, never or not in a sentence.</p> <p><i>Eg. Name 3 things you cannot do in Space</i></p>	<p>The What If Key</p> <p>You can ask virtually any What If question. Use the ideas wheel to record responses.</p> <p><i>Eg. What if our planet started to orbit further away from the Sun</i></p>	<p>The Disadvantages Key</p> <p>Choose an item and list a number of its disadvantages. Then list some ways of correcting or eliminating these.</p> <p><i>Eg. An unmanned satellite</i></p>	<p>The Combination Key</p> <p>List the attributes of two dissimilar objects, and then combine the attributes into a single object.</p> <p><i>Eg. A Space shuttle and a powerful telescope</i></p>	<p>The BAR Key</p> <p>Make an item BIGGER, ADD something to it, REPLACE something on it.</p> <p><i>Eg. A research satellite equipped with a camera</i></p>
<p>The Brick Wall Key</p> <p>Make a statement which could not generally be questioned or disputed, and then try to break down the wall by outlining other ways of dealing with the situation.</p> <p><i>Eg. You cannot survive on the Moon</i></p>	<p>The Alternative Key</p> <p>List ways in which to complete a task without using the normal tools or implements.</p> <p><i>Work out 3 ways to - The Earth could orbit the Sun without gravity?</i></p>	<p>The Picture Key</p> <p>Draw a simple diagram and pupils work out ways to link it to the topic.</p> 	<p>The Prediction Key</p> <p>Ask for a series of predictions in regard to a particular situation, product or set of circumstances.</p> <p><i>Eg. Predict how the Earth would change if the gases in our atmosphere changed</i></p>	<p>The Different Uses Key</p> <p>List some different uses for items from your topic (emphasis on reusing and recycling).</p> <p><i>Eg. The Mir Space station</i></p>

<p>The Ridiculous Key</p> <p>Make a ridiculous statement that would be virtually impossible to implement, and then attempt to substantiate it.</p> <p><i>Eg. Everyone should live in space</i></p>	<p>The Commonality Key</p> <p>Decide on 2 objects which would normally have nothing in common, and try to find common points between them.</p> <p><i>Eg. The surface of Jupiter and the Earth</i></p>	<p>The Question Key</p> <p>Start with an answer and list five questions that give that answer.</p> <p><i>Eg. The Moon</i></p> <p><i>Mars</i></p>	<p>The Brainstorming Key</p> <p>State a problem which needs to be solved and brainstorm a list of solutions.</p> <p><i>Eg. Pollution in our atmosphere</i></p>	<p>The Inventions Key</p> <p>Inventions which are constructed in an unusual manner. Outline on paper and then possible construction.</p> <p><i>Eg. Invent: A method for exploring space too far away for humans to travel to</i></p>
<p>The Alphabet Key</p> <p>List an A-Z of words about Space and define these terms with a picture or diagram</p>	<p>The Variations Key</p> <p>This key employs a special group of words. Start each question with "How many ways Can you view space with your naked eye?"</p>	<p>The Construction Key</p> <p>Construct something on or related to topic using list of items</p> <p>Design/Construct a space station which will house crews for 'long term' stays</p>	<p>The Forced Relationship Key</p> <p>Develop a solution to a problem by employing a number of dissimilar objects</p> <p><i>Eg. You fix a small leak in your space shuttle using only a piece of plastic, a box of matches and an elastic band</i></p>	<p>The Interpretation Key</p> <p>Give three possible explanations for.....</p> <p><i>E.g Your neighbour claiming to have been visited by aliens</i></p>