








# Critical and Creative Thinking Board:

## Science Concepts

<p style="text-align: center;"><b>Questioning</b></p> <p>Why is the sky blue? Where does rain come from? How does photosynthesis work? Brainstorm a list of science topics you know, and then come up with one question for each topic!</p> 	<p style="text-align: center;"><b>Fluency, Flexibility, Originality &amp; Elaboration</b></p> <p>Rube Goldberg designed machines that used many steps to perform a simple task. How can you make a Rube Goldberg machine that does a task for you?</p> 	<p style="text-align: center;"><b>PMI</b></p> <p style="text-align: center;"><b>Plus, Minus, Interesting</b></p> <p>Recycling plastics has become a big topic in our news today. Do some research on recycling and create a PMI chart with the information you learn!</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">P</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">M</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">I</td> </tr> </table>	P	M	I
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<p style="text-align: center;"><b>Mind Mapping</b></p> <p>Create a mind map of a science unit you have studied this year! Then, use your science notebook to go back and add details and information you forgot in just one color. That information is information you still need to study to learn more deeply!</p> 	<p style="text-align: center;"><b>Visualization</b></p> <p>Choose two life cycles that are your favorite (water cycle, ladybug, caterpillar, plant, etc.) Draw a visual map of how the two cycles are related to one another. Do the cycles connect at more than one point?</p> 	<p style="text-align: center;"><b>Point of View</b></p> <p>How would the life cycle of a plant be different from the sun's point of view? Rewrite the cycle from the perspective of the sun!</p> 			
<p style="text-align: center;"><b>Decisions and Outcomes</b></p> <p>Tell about a decision or choice made by people that has impacted the world of science. Do you think the people made a good choice? Why or why not? <b>Grades 3-4</b> can also ask: What was the outcome of the decision?</p> 	<p style="text-align: center;"><b>Who's In?</b></p> <p style="text-align: center;"><b>Encapsulations</b></p> <p>Retell (summarize) the water cycle in...</p> <ul style="list-style-type: none"> <li>• 15 words or fewer;</li> <li>• 10 words or fewer;</li> <li>• 5 words or fewer.</li> </ul> 	<p style="text-align: center;"><b>Analogies</b></p> <p>How are the things we see in nature similar to events in your own life?</p> <p>(Topic) <b>is like</b> _____ <b>because</b> _____.</p> <p><u>Example</u>: Fog <b>is like</b> a cat <b>because</b> it moves softly, and no one can hear it.</p>			