

Playground Rubric

Component	4	3	2	1
Overall Design is Based on Sound Scientific Concepts (DCI)	<p>Uses at least two forces, either balanced and unbalanced, or two unbalanced forces</p> <p style="text-align: center;">AND</p> <p>includes forces that act on the object with either strength or direction</p> <p style="text-align: center;">AND</p> <p>includes a change in either direction of motion or distance.</p>	<p>Uses at least two forces, either balanced and unbalanced, or two unbalanced forces</p> <p style="text-align: center;">AND</p> <p>includes forces that act on the object with either strength or direction</p> <p style="text-align: center;">AND</p> <p>includes a change in either direction of motion or distance.</p>	<p>Uses at least two forces, either balanced and unbalanced, or two unbalanced forces</p> <p style="text-align: center;">AND</p> <p>includes forces that act on the object with either strength or direction</p> <p style="text-align: center;">OR</p> <p>includes a change in either direction of motion or distance.</p>	<p>Uses at least two forces, either balanced and unbalanced, or two unbalanced forces</p> <p style="text-align: center;">OR</p> <p>includes forces that act on the object with either strength or direction</p> <p style="text-align: center;">OR</p> <p>includes a change in either direction of motion or distance.</p>
Explanation of the causal relationship of change (CCC)	<p>Shows comprehension of the fact that a force that is unbalanced causes a change in direction and distance</p> <p style="text-align: center;">AND</p> <p>a force that is balanced has no change in motion</p> <p>(a balanced force on an object means it is not moving).</p>	<p>Shows comprehension of the fact that a force that is unbalanced causes change in direction and distance</p> <p style="text-align: center;">OR</p> <p>a force that is balanced has no change in motion</p> <p>(a balanced force on an object means it is not moving).</p>	<p>Shows comprehension of the fact that a force causes motion.</p>	<p>Shows comprehension of the fact that a push or pull causes the motion.</p>
Communication of scientific information (SEP)	<p>Communicates information orally</p> <p style="text-align: center;">AND</p> <p>in written form using tables, diagrams, and charts.</p>	<p>Communicates information orally</p> <p style="text-align: center;">OR</p> <p>in written form using tables, diagrams, and charts.</p>	<p>Communicates information in written form using tables, diagrams, or charts.</p>	<p>Communicates information only in written form.</p>