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## Conservation and transfer of energy: projectbased learning with Rube Goldberg machines

## Peer-review worksheet

## **Grading rubric:**

Criterion	Criterion Not Met	Needs Improvement	Satisfactory	Excellent
Criterion	(0)	(1 pt)	(2 pts)	(3 pts)
Design	Machine failed to	Machine met only	Machine met only	Machine met <b>all four</b> of
Constraints	meet any of the	one or two of the	three of the design	the design constraints:
	design constraints.	design constraints.	constraints.	<ul> <li>Initial action activates the machine, and it continues to operate without assistance.</li> <li>Used at least five transformations of energy.</li> <li>Used at least three unique simple machines.</li> <li>Record and upload a video of a successful run of your machine from start to finish.</li> </ul>
Design Sketch	Did not draw a design sketch.	Design sketch did not match the actual device and did not include numbered steps on the drawing and also in Table 1.	Design sketch either did not match the actual device or did not include numbered steps on the drawing with descriptions of each step in Table 1.	Design sketch matched the device and was drawn with clearly numbered steps on the drawing and descriptions in Table 1.

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Criterion	Criterion Not Met (0)	Needs Improvement (1 pt)	Satisfactory (2 pts)	Excellent (3 pts)
Energy Transform- ations	Machine did not use three or more distinct kinds of energy, and one or more of the energy transformations listed in Table 1 were incomplete or incorrect.	Machine used <i>three</i> distinct kinds of energy and all of the energy transformations listed in Table 1 were complete and correct. Minus ½ point if one or more of the energy transformations listed in Table 1 were incomplete or incorrect.	Machine used <b>four</b> distinct kinds of energy and all of the energy transformations listed in Table 1 were complete and correct. Minus 1/4 point if one or more of the energy transformations listed in Table 1 were incomplete or incorrect.	Machine used <i>five</i> or more distinct kinds of energy, and all of the energy transformations listed in Table 1 were complete and correct.  Minus ¼ point if one or more of the energy transformations listed in Table 1 were incomplete or incorrect.
Simple Machines	Did not use any simple machines in the device	Included at least <b>one</b> unique simple machine. Listed the simple machine used in the device and correctly identified the type in Table 1. Minus ¼ point in one or more are incorrectly identified.	Included at least <i>two</i> unique simple machines. Listed the simple machines used in the device and correctly identified the type each in Table 1.  Minus ¼ point in one or more are incorrectly identified.	Included at least <i>three</i> unique simple machines. Listed the simple machines used in the device, and correctly identified each in Table 1.  Minus ¼ point in one or more are incorrectly identified.

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## **Peer review**

	Video Title	Overall Score (0-3)	Comments	Vote (Top 3)
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	Video Title	Overall Score (0-3)	Comments	Vote (Top 3)
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