

Task Background	
Domain & Area: Science - Physical Science	
MN Standard Adult High School Diploma Social Studies Competencies Area 4: Physical Science <ul style="list-style-type: none"> Demonstrate an understanding of energy (types and transformations) 	
<p>Task Description: The purpose of this task is to provide you an opportunity to demonstrate competency in a fundamental concept in physical science: types and transformation of energy. In this task, you will build a machine with at least 5 components that accomplishes a simple task and label the types of energy involved in the actions of the machine, including where it enters and leaves the system. Then you will present the machine in a way that you choose.</p> <p>Follow the directions for each activity carefully. The expectation is that you will complete the activities of this task mostly on your own. You may use resources such as dictionaries and research online as needed to complete the activities. Your teacher can provide feedback for revisions of your work as needed.</p>	
Activities	
Title: Background Videos	<p>Materials: To complete this activity, you will need to view the <i>following videos</i> and complete the “<i>Notice & Wonder Activity</i>” <i>handout</i>.</p> <ul style="list-style-type: none"> “How to Build a Rube Goldberg Machine”: https://www.youtube.com/watch?v=iemItSAT9Ew OK Go--”This Too Shall Pass” Music Video: https://www.youtube.com/watch?v=qybUFnY7Y8w Goldieblox Commercial: https://www.youtube.com/watch?v=llGyVa5Xftw
Title: Choose a Task	Materials: To complete this activity, you will need the “ <i>Choose a Task</i> ” <i>handout</i> .
Title: Design Your Machine	Materials: To complete the activity, you will need the “ <i>Design Your Machine</i> ” <i>handout</i> .
Title: Present Your Machine	Materials: To complete this activity, you will need the “ <i>Present Your Machine</i> ” <i>handout</i> and the <i>Physical Science Task Rubric</i> .

Checklist		
Activities	Date	Teacher Initials
1. Background Videos		
a. "How to Build a Rube Goldberg Machine"	_____	_____
b. OK Go--"This Too Shall Pass" Music Video	_____	_____
c. Goldieblox Commercial	_____	_____
2. Choose a Task		
a. Decide on a simple task	_____	_____
3. Design Your Machine		
a. Sketch of ideas	_____	_____
b. List of materials	_____	_____
4. Present Your Machine		
a. Determine how I will present my machine	_____	_____
b. Present it	_____	_____