

## Jay Schools      Performance Task Blueprint

<b>Title of task</b>	Mission to the Pail Planet	<b>Grade span/level</b>	7
<b>Curriculum area(s)</b>	Science & Tech, LA, Math	<b>Approximate time frame</b>	1 test/week for 3 weeks & present Fri. of 4 <sup>th</sup> week
<b>Developed by</b>	JH, RC, CAS, SS		
<b>Resources/materials</b>	Test tubes, Vinegar, H <sub>2</sub> O, Baking Soda, Pail, Launch Pad, Stopper		

<b>Content Standards/Performance indicators</b>		
Science & Tech	LA	Math
J6 Design, construct and test a device that solves a special problem.	H1 Collect and synthesize data for research topics from field work, using note taking and appropriate strategies.	G2 Analyze relationships to explain how a change in one quantity can result in a change in another.

<b>Description (Include context, audience, purpose)</b>
<p>You and a partner are a crack NASA research team. Your task is to develop a new rocket fuel and launcher to land a satellite (stopper) on the planet Pail (in a bucket). This challenge will involve using a test tube, rubber, stopper, toilet tissue, baking soda, water and vinegar to make the launcher and develop the rocket fuel. A journal recording your progress, accurate measurements of amounts used, and test results is required. (A written proposal to the NASA Committee on Rocket fuels). Oral Report to the Rocketing Committee.</p>

Student products/performances		
Make a test tube launcher that fires a stopper into a bucket at a distance of 10 ft (3 m).	Keep a journal recording progress, measurements and test results.	Make a chart showing the relationship between fuel properties and launch distance. Graph above data.

Criteria for evaluating student products/performances		
• Successful launch	• Documentation of progress, measurement, &	• On displays – properly labeled charts & graphs
• (Successful landing into bucket or proximity)	• Test results.	• Reflecting trials & amounts used.
• Test it (multiple trials)	• Charts & graphs	•
•	• Rough drafts	•
•	• Oral presentation w/display to committee (class)	•

Is this an approved component of the Local Assessment System? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, include a scoring guide in the following format:

	1	2	3	4
MLR Standard and performance indicator	Quality standard not met (Still practicing)	Quality standard Partially/minimally met	Quality standard met	Exceeds the standard (Outstanding performance)