

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Activity: Investigating Energy Efficiency

### Station 1

Use the EnerGuide labels and pictures to choose which refrigerator you would purchase for a home with a family of four.

Justify your choice in terms of cost, energy efficiency, design, size and operating cost. This can be written in point form!

### Evaluation

<u>Criteria</u>	<u>Great (5)</u>	<u>Good (4)</u>	<u>Average (3)</u>	<u>Poor (2)</u>	<u>Missing (0)</u>
Demonstrates an understanding of energy efficiency rating and how it relates to energy usage and operating cost					
Adequately justifies a decision using logic and reasoning					

### Station 2

Consider the appliance in the image. Identify at least three ways its design could be improved to make it more energy efficient. Explain each in some detail.

### Evaluation

<u>Criteria</u>	<u>Great (5)</u>	<u>Good (4)</u>	<u>Average (3)</u>	<u>Poor (2)</u>	<u>Missing (0)</u>
Identifies design elements that can affect the energy efficiency of an appliance					
Describes in appropriate detail, using scientific language, possible improvements to a design that can increase energy efficiency					

### Station 3

For one of the stakeholder cards, propose a course of action that describes three reasonable steps they can take to reduce their electrical energy usage. For each step, include how it will reduce energy consumption, how much it will reduce their usage and any difficulties that stakeholder may have in taking those steps.

### Evaluation

<u>Criteria</u>	<u>Great (5)</u>	<u>Good (4)</u>	<u>Average (3)</u>	<u>Poor (2)</u>	<u>Missing (0)</u>
Identifies reasonable courses of action in reducing energy consumption for a specific stakeholder					
Describes effectiveness of and obstacles to reducing energy consumption					