## Card sort lab sheet

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With your partner sort the cards on your lab table into groups.

- You may have as many or as few groups as you like.
- Be able to explain your reasoning for the groups.
- You may **not** have a group of one card.
- All the cards must be used.
- \*\* You and your partner will have time to observe other groups sorting, so please wait until told to do so\*\*

### Part one: Questions

- 1. How many groups did you and your partner have?
- 2. In what way did you and your partner sort the cards? Explain your reasoning and then list your cards that belong in each group. (You may create a chart like the ones on this sheet, if you wish.)

3. After observing other groups cards, what was different and the same about the way they sorted the cards compared to the way you sorted them? (Did they have more groups or fewer? In what ways do you think other groups sorted their cards?)

Name:

## **Card sort lab sheet**

Instructions: With your partner, re-sort your cards on your lab table into **seven** groups.

- Be able to explain your reasoning for the groups.
- Each group must contain more than one card.
- All the cards must be used.
- 1. In what way did you and your partner sort the cards? Explain your reasoning and then list your cards that belong in each group.

Group Title				
Cards in the group				

### **Part Three:**

Instructions: With your partner re-sort the cards on your lab table into TWO groups.

- Be able to explain your reasoning for the groups.
- Each group must contain more than one card.
- All the cards must be used.
- 1. In what way did you and your partner sort the cards? Explain your reasoning and then list your cards that belong in each group.

Group Title	
Cards in the group	

## Card sort lab sheet

#### **Part Four:**

Instructions: With your partner sort the cards on your lab table into the seven types of Energy. Use the definitions below to help you sort the cards.

- Each group must contain more than one card.
- All the cards must be used.

### **Energy Definitions**

Mechanical Energy – related to the movement of objects or its position in gravity.

**Sound Energy** – relates to the repetitive compression (squeezing) and rarefaction (letting out) of molecules in a substance (solid, liquid, gas).

**Chemical Energy** – related to the potential energy stored in the bonds between atoms in a compound.

**Radiant (Light) Energy** – related to the vibrations of an electrical charge or magnetic field that produces electromagnetic waves that can travel through a vacuum such as space.

**Electrical Energy** – related to the movement or flow of electrons which carry a charge.

Thermal (Heat) Energy – related to the motion of atoms or molecules in a substance.

**Nuclear Energy** – related to the potential energy stored in bonds between particles in the nucleus of an atom.

1. Using the table below record the way you and your partner have sorted the cards.

Group Title	Mechanical	Electrical	Sound	Radiant	Thermal	Nuclear	Chemical
Cards in the group							

# **Card sort lab sheet**

### **Part Five:**

Instructions: With your partner re-sort the cards on your lab table into TWO groups. One group will be potential energy and the other group will be kinetic energy.

- Each group must contain more than one card.
- All the cards must be used.
- Hint: in general, most cards will stay with other cards from the same energy.

**Potential Energy** – stored energy and the energy of positional gravitational energy. There are several forms of potential energy.

Kinetic Energy – energy of motion (of waves, electrons, atoms, molecules, substances, and objects).

1. Using the table below record the way you and your partner have sorted the cards.

Group Title Poten	tial Kinetic
Cards in the group	