Name:_____ Date:_____ Teacher: _____ Period:_____

The questions here will ask you what you know about energy issues related to buildings. You may not have learned about this before. Please answer the questions to the best of your ability! If you do not know the answer, try to make your best guess. Please use a pen or a dark pencil.

ENERGY IN YOUR ENVIRONMENT

1. Please use the drawing below to show how electricity interacts with your classroom. You can add pictures, labels, numbers, words, or other symbols.

a. Draw how you think electricity gets to the outlet including where it comes from.
b. Draw how electricity is used in the classroom.
c. Draw how the electricity used by the classroom impacts nature.



Name:_____ Date:_____ Teacher: _____ Period:_____

d. Explain what your drawing is showing:

2. The temperature inside your classroom stays in a constant range all year, but outside the temperature gets warmer and colder. Identify and explain how the *features of your classroom* keep the temperature inside constant throughout the year.

_____

_____

_____

_____

_____

_____

Name:_____ Date:_____ Teacher: _____ Period:_____

3. List **2 sources of light in your classroom** and fill in the table about those light sources.

Light Source	**What is an advantage of using this source?**	**What is a disadvantage of using this source?**	**Brainstorming Space**

Name:_____ Date:_____ Teacher: _____ Period:_____

4. DRAW A CLASSROOM! Sketch and label a classroom that shows how electrical energy, light energy, and thermal energy work together in your classroom. In your drawing, show energy flow and use. You can use the suggestions in the word bank or other things you know to help you decide what to draw.

Word Bank: *windows, walls, roof (color, shape), sunlight, thermal energy, light energy, electrical energy, insulation, light bulbs, classroom equipment, trees & plants*

Name:_____ Date:_____ Teacher: _____ Period:_____

a. Write what your drawing is showing. Include in your writing, your explanation for how energy is flowing in your classroom

b. If you became stuck while drawing, write your questions here:

ENERGY EFFICIENCY

The following questions will ask you to think about what energy efficiency means and why it matters. If you have not learned about this concept in the past, just answer the questions to the best of your knowledge!

5. A friend asked you what an energy efficient building is and why it matters. Write below what will you tell them.

6. Is the classroom you sketched in question 4 energy efficient? If yes, what makes it energy efficient? If no, what would make it energy efficient?