Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Wind-Powered Sail Cars Post-Quiz Answer Key**

*Explain the following terms:*

Circle the letter for your answer and fill in the blank whenever you choose answer C or D.

**Energy**

1. I’ve never heard of it.
2. I’ve heard of it, but I have no idea what it is.
3. I’ve heard of it. I think it has something to do with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. I know what it is. It’s the ability to make things happen OR the ability to perform work.

**Kinetic energy**

* 1. I’ve never heard of it.
  2. I’ve heard of it, but I have no idea what it is.
  3. I’ve heard of it. I think it has something to do with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  4. I know what it is. It’s the energy of moving objects.

**Energy transfer**

* 1. I’ve never heard of it.
  2. I’ve heard of it, but I have no idea what it is.
  3. I’ve heard of it. I think it has something to do with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  4. I know what it is. It’s when energy changes from one form to another OR when energy is transferred from one object to another.

**Wind energy**

* 1. I’ve never heard of it.
  2. I’ve heard of it, but I have no idea what it is.
  3. I’ve heard of it. I think it has something to do with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  4. I know what it is. It’s the energy contained in moving air.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Answer the following questions:*

1. **What kind of energy does wind have? (Remember, wind is moving air.)**

Kinetic energy

1. **What kind of energy does a sail car have when it is *moving*?**

Kinetic energy

1. **From where did the energy to move the sail car come?**

Kinetic energy in the wind was transferred to kinetic energy in the sail car.

1. **On the back of this sheet, write a short paragraph describing your sail car design process and how you determined your final sail car design. 🡺**

Answers will vary.