TeachEngineering
STEM curriculum for k-12

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

A. I've never heard of it.

B. I've heard of it, but I have no idea what it is.

C. I've heard of it. I think it has something to do with _____

(D.) I know what it is. It's the ability to make things happen OR the ability to perform work.

Kinetic energy

A. I've never heard of it.

B. I've heard of it, but I have no idea what it is.

C. I've heard of it. I think it has something to do with _____

(D.) I know what it is. It's the energy of moving objects.

Energy transfer

A. I've never heard of it.

B. I've heard of it, but I have no idea what it is.

C. I've heard of it. I think it has something to do with _____

(D.) 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

A. I've never heard of it.

B. I've heard of it, but I have no idea what it is.

C. I've heard of it. I think it has something to do with _____

(D.) I know what it is. It's the energy contained in moving air.

TeachEngineering
STEM curriculum for k-12

Name: _____ Date: _____ Class: _____

Answer the following questions:

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

   Kinetic energy

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

   Kinetic energy

3. **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.

4. **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.