

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.**

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.