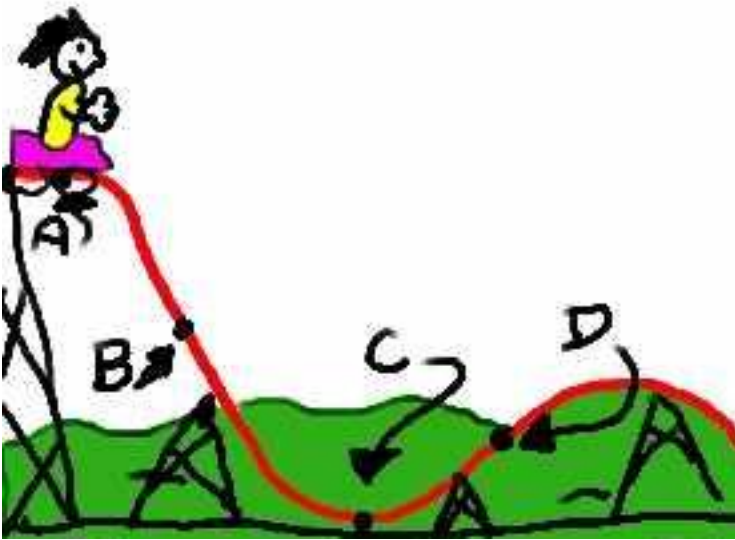


Energy Grade 6 Quiz

Teacher's Answer Key

1. Fill in the blank: A battery produces _____ energy from _____ energy. (electrical, chemical)
2. Name two ways energy is transferred: (heat, sound, radiation, etc.)
3. What is one way to describe energy? (the ability to do work)
4. Work is when something moves when: (Energy is used over a distance.)
5. Name two simple machines: (lever, pulley, inclined plane)
6. A lever has three parts. Circle all that apply: (fulcrum, load, effort)



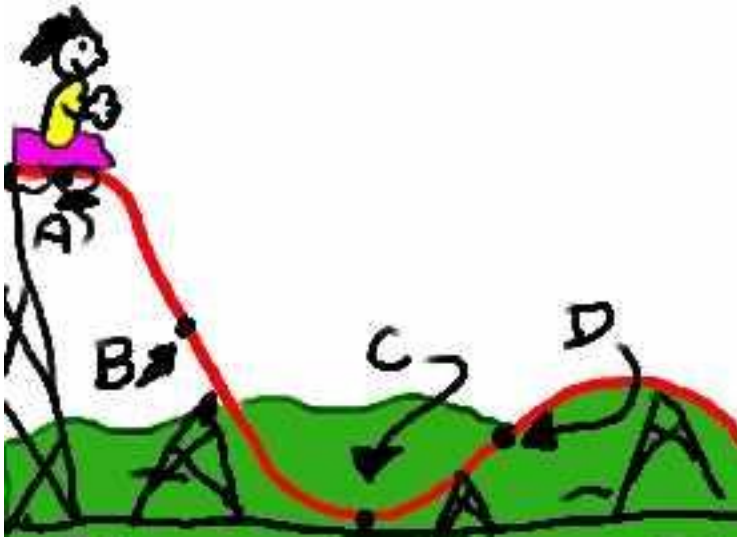
7. Where is the potential energy greatest in the above image? (A)
8. What units do we use to measure energy? (Joules)
9. True or False: Water is poor at absorbing heat energy. (false)
10. True or False: A molecule that heats up will move faster. (true)
11. True or False: A material will be less dense at lower temperatures. (false)
12. If something has a weight of 2 Newtons and is moved half a meter, how many Joules of energy are used? (1 Joule)
13. What is work? (force times distance)
14. What is power? (work over time)

Energy Grade 6 Quiz

Student Quiz Sheet

Name _____

1. Fill in the blank: A battery produces _____ energy from _____ energy.
2. Name two ways energy is transferred:
 - a.
 - b.
3. What is one way to describe energy?
 - a. The amount of atoms moving around at any given moment
 - b. Electrons flowing from one area to another
 - c. The ability to do work
 - d. The square root of the speed of an electron
4. Work is when something moves when:
 - a. Force is applied
 - b. Energy is used
 - c. Electrons are lost or gained
 - d. A group of atoms vibrate
5. Name two simple machines:
 - a.
 - b.
6. A lever has three parts. Circle all that apply:
 - a. Fulcrum
 - b. Weight
 - c. Load
 - d. Effort



7. Where is the potential energy greatest in the above image?
8. What units do we use to measure energy?
 - a. Kilowatts
 - b. Joules
 - c. Newtons
 - d. Kilowatt-hours
9. True or False: Water is poor at absorbing heat energy.
 - a. True
 - b. False

10. True or False: A molecule that heats up will move faster.
- True
 - False
11. True or False: A material will be less dense at lower temperatures.
- True
 - False
12. If something has a weight of 2 Newtons and is moved half a meter, how many Joules of energy are used?
Show your work.
13. What is work?
- Force divided by distance
 - Force times distance
 - Energy required for power
 - Kinetic and potential energy
14. What is power?
- Work divided by time
 - Work multiplied by time
 - Energy used in an exercise
 - Calories over time