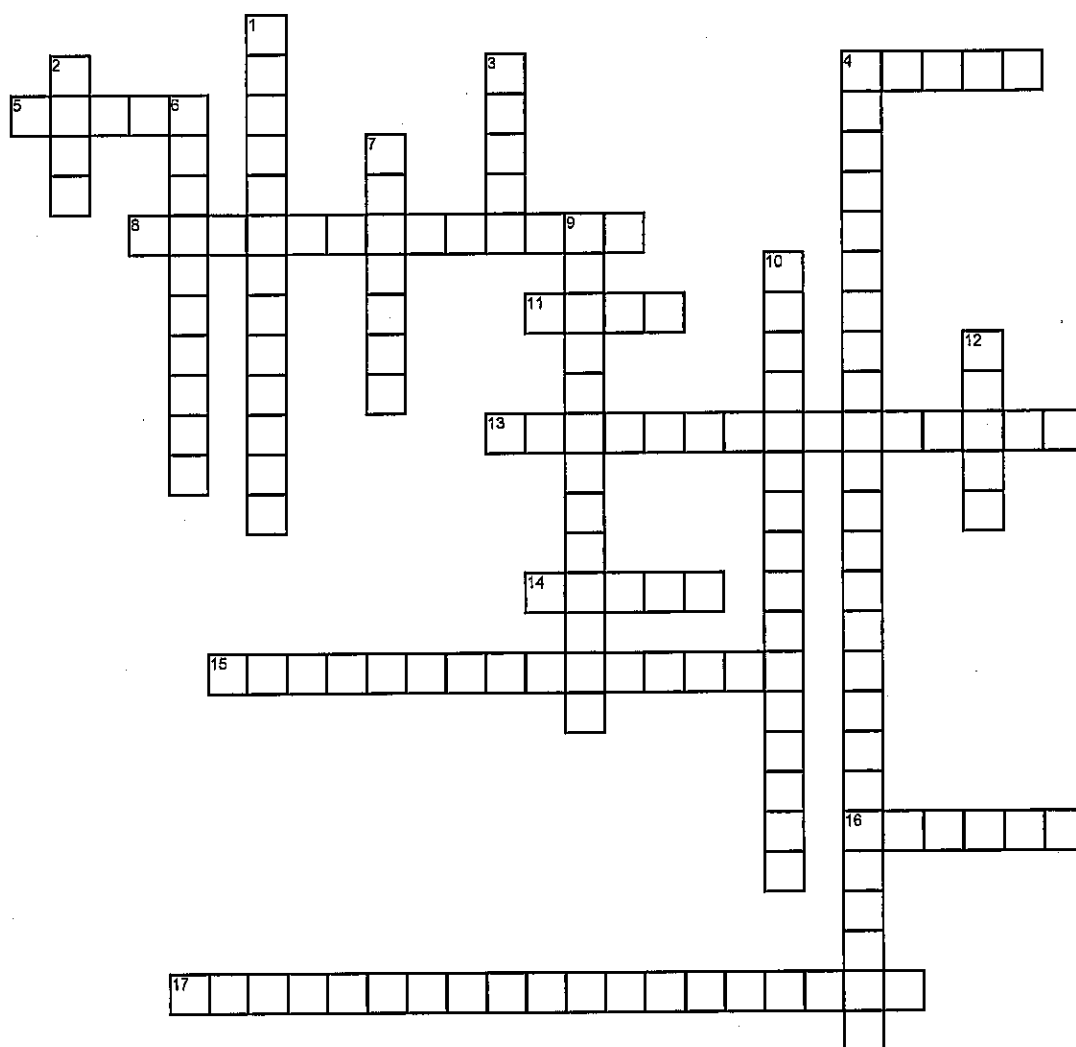


Chapter 13 Crossword , Science Spectrum 2008

CR. 13

Name _____ Date _____

Instructions: Complete the puzzle. Use the clues to help you fill the boxes with the correct words.



ACROSS

4. All of these simple machines have a rigid arm that turns around a point called a fulcrum.
5. The unit used to measure work and energy, also a N-m
8. energy of motion; a form of mechanical energy, every moving object has this type of energy
11. the unit used to measure power, equal to a J/s
13. energy of position; stored energy; a form of mechanical energy; energy at rest
14. a quantity that measures the rate at which work is done or energy is transformed; measured in Watts
15. a machine made of more than one simple machine
16. the capacity of a machine to do work; measured in Joules; it cannot be created or destroyed; the ability to change or move matter, or to do work

17. a number that tells how many times a machine multiplies force; it can be calculated by dividing the output force by the input force

DOWN

1. one of the six basic types of machines, which are the basis for all other forms of machines
2. the transfer of energy to a body by the application of a force that causes the body to move in the direction of the force; measured in Joules
3. a modified inclined plane; a type of simple machine
4. Energy cannot be created or destroyed; it only changes forms.
6. how much useful work a machine does; a quantity, usually expressed as a percentage, that measures the ratio of work output to work input; always less than 100 percent
7. They help do work by changing the size of an input force, changing the direction of a force, or both.
9. this energy depends on the mass and height of an object; _____ potential energy
10. the amount of work an object can do because of the object's kinetic and potential energies
12. an inclined plane wrapped around a cylinder; a simple machine