Name:	Date:
Jot down what you think of when you hear the	e word <b>WORK</b> (dun dun dunnnnnnn)
door, you have done work. Two thing must act on to make the	day. When you lift a carton of milk or pull open a gs must happen for work to be done. A an object, and the force must have enough object move.
are two types of forces. When pushed swing push, direct Trest force person they pushed the pushed they pushed the pushed they pushed the p	an object. Pushes and pulls are and pulls move objects, work is done. When you go to the park and get pushed on a g, the person who is pushing you is using a force, a to move the swing. When the swing moves in the tion of the force, work is done. The amount of work you do depends on how much you use and how far the object moves. The on who pushes you on the swing does more work if oush harder and the swing moves higher. The on would do even more work if the child were
heavier. They would need to use mo Sometimes you might push or You have done no work. You can pu move. No work is being done. Now think about pushing your	
Identify at least three other example	es of work.

## COMPOUND AND COMPLEX MACHINES



A **compound machine** is made up of two or more \_\_\_\_\_\_. The simple machines that make up the garden shears shown in the picture are a lever and two wedges. The cutting edges of the blades are wedges. The pin is the fulcrum that changes the direction of the force on the garden shears. When the handles of the shears are pulled in one direction, the blades of the shears move in the opposite direction.

The hand mower is also a
\_\_\_\_\_\_. Notice the
simple machines that make up the hand
mower. The handle is a lever. Each
blade is a wedge that cuts the grass.
The mower rolls on two wheels and an
axle. All these simple machines together
make up a compound machine--the
hand mower.



A bicycle is another compound machine. What kinds of simple machines make up a bicycle?