## Exploring Compound Machines

Name:	Date:
	ine two or more simple machines to perform a task more efficiently ntage in unique ways, making tasks easier or possible that migh
- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	s), wheels and axles (the wheels of the bike), and gears (which are ese simple machines allows for greater speed and less effort when
Similarly, a pair of scissors combines two levers (the paper or fabric much easier than it would be with just	handles) and a wedge (the blades) to make cutting materials like one simple machine.
1. Define a compound machine.	
A. A machine that is difficult to use.	
B. A machine that combines two or more sin	
C. A machine that requires electricity to ope	
D. A machine used for complex scientific cal	culations.
2. What are the simple machines in a pair of scissors?	•
A. Lever and pulley.	
B. Wedge and wheel and axle.	
C. Lever and wedge.	
D. Inclined plane and screw.	
3. Describe how a bicycle uses simple machines to ma	ke cycling easier.
4. Identify two simple machines in a can opener and $\epsilon$	explain their function.
5. How does combining simple machines in a compoun	nd machine benefit us?

6.	Think of a household item that is a compound machine and describe the simple machines it consists of and their functions.
7.	Why is understanding compound machines important in our daily lives?
8.	Imagine you are designing a new compound machine. Describe what it would do and which simple machines you would combine to create it.