Levers

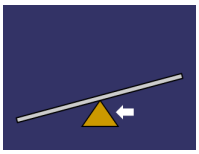
Name:_____
Date:_____
Class:_____

1. What is a lever?

A. Any piece of metal that bends
B. Any bar or a rod that's set up to tilt on a fulcrum
C. Any bar that's used to lift a load
D. Any bar that's attached to a pulley

2. Which device uses a lever?

A. A seesaw
B. A pair of tweezers
C. A wheelbarrow
D. All of the above

3.  **What is the following point called?**

A. The load
B. The effort
C. The fulcrum
D. The lever

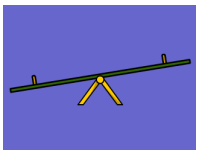
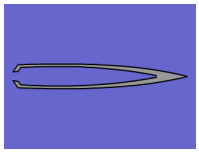
4. What happens if you decrease the distance between the fulcrum and the load?

A. You have to use more force to move the load
B. You can use less force to move the load
C. You have to decrease the length of the lever
D. You have to increase the height of the fulcrum

5. What defines a first-class lever?

A. The fulcrum is between the effort and the load
B. The load is exactly centered between the fulcrum and the lever
C. The effort is between the fulcrum and the load
D. The effort is between the fulcrum and the lever

6. Which of the following is a second-class lever?

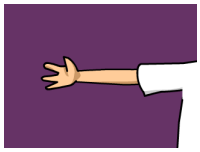
A. 
B. 
C. 
D. 

7. Which of the following is a true statement?

A. It's easier to lift a heavy weight straight up than it is to slide it up a ramp
B. When you use a lot of effort, a load becomes lighter
C. When you use a minimum amount of effort, a load becomes heavier
D. When you increase the distance over which effort is expended, you don't have to work as hard

8. What defines a third-class lever?

A. The fulcrum is between the effort and the load
B. The fulcrum is in the exact center
C. The fulcrum and lever are equidistant from the load
D. The fulcrum and effort are at the same end

9.  **What kind of lever is your arm?**

A. A first-class lever
B. A second-class lever
C. A third-class lever
D. A fourth-class lever

10. How is a class 3 lever different from class 1 and class 2 levers?

A. A class 3 lever makes the job easier, but decreases the movement of the load
B. A class 3 lever makes the job easier, but increases the movement of the load
C. A class 3 lever makes the job harder, but increases the movement of the load
D. A class 3 lever makes the job harder, but decreases the movement of the load