

Name _____

Exploring Levers

Procedure:

Use your lever system to answer these questions:

1. How much force does it take to lift (move) the load?
2. Can you lift (move) a load using only one finger?
3. Does it always take the same amount of force to lift (move) the load?
4. Where should you apply effort to lift (move) a load with the least amount of force?

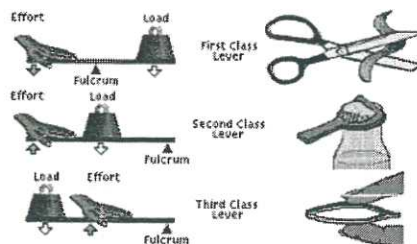
Data:

Record your observations

A *first class* lever has the fulcrum placed between the load and the effort.

A *second class* lever has the load located in the middle and the fulcrum and the effort on opposite ends. Examples of *second class* levers: a wheelbarrow, hand truck, wrench, nutcracker, and the handle to a pencil sharpener.

A *third class* lever has the effort in the middle with the load and fulcrum on opposite ends. Commonly used *third class* levers include arms, legs, cranes, catapults, and fishing poles.



What is a **variable**?

What are variables in this investigation?

What did you have to do to be able to answer the questions listed in the procedure?
