Levers

1. **Draw** a diagram of a first, second, and third class lever in the boxes below. Then **color** the load one color, the force another color, and the fulcrum a third color. **Fill in** the key below with your color choices.

 Load  Force  Fulcrum

|  |  |  |
| --- | --- | --- |
|  |  |  |
| First Class Lever | Second Class Lever | Third Class Lever |

2. **Fill in the blank:**

Possible Answers: Fulcrum, Load, Force, Up, Down, Easier, Harder, First, Second, Third

a) The \_\_\_\_\_\_ \_\_\_\_ \_\_ is the point where the lever pivots, or turns.

b) If the force acts on the edge of a lever, and in the opposite direction of the weight of the load, the lever is a \_\_\_\_\_\_\_\_\_\_\_\_ class lever.

c) The effort applied to a lever to make it move is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

d) The \_\_\_\_\_\_\_\_\_\_\_ is the weight acting on the lever.

e) In a first class lever, a force that acts down will move the load \_\_\_\_\_\_\_\_\_\_.

f) In a \_\_\_\_\_\_\_\_\_\_\_ class lever, the force acts in between the fulcrum and the load.

g) In second and third class levers, a force acting up moves the object \_\_\_\_\_\_\_\_\_\_\_.

h) Using a lever makes it \_\_\_\_\_\_\_\_\_\_\_\_ to move loads.

i) In a \_\_\_\_\_\_\_\_\_\_\_\_\_ class lever, the load is in the middle of the fulcrum and effort.