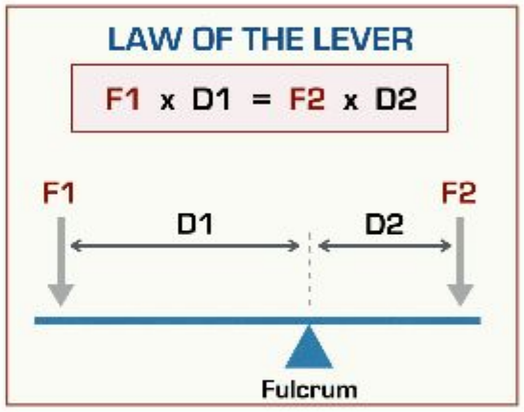

Explain what a **lever** is and its advantages:

NAME:_____

DATE:_____

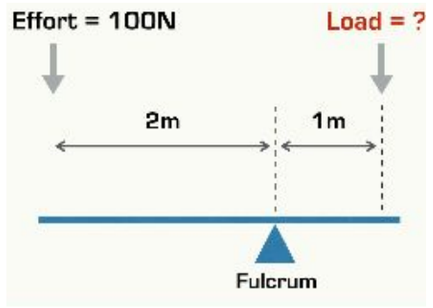
1). Using the resources given to you *(ruler for lever, nuts for weight and fulcrum)* compile a practical experiment to prove the Law of the Lever. Provide detailed sketches & info.



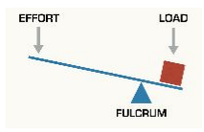

**LAW OF THE LEVER** = if a lever is balanced, the clockwise moment (tending to turn the lever clockwise) must equal the anticlockwise moment (tending to turn it anticlockwise).

**Clockwise moment = anticlockwise moment**

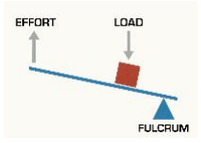
2). Calculate the force/load? Show workings.



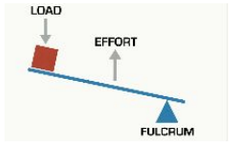

3). Describe each class of lever below and indicate on the images what type of class it is. Label the Fulcrum, Load & Effort on the images also..



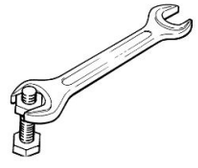

**CLASS 1**




**CLASS 2**




**CLASS 3**



**MECHANICAL ADVANTAGE**

4). The image depicts Mechanical Advantage. Write a definition and create a sample question with answer. Show sketches.

**VELOCITY RATIO**: 5). What is meant by velocity ratio?