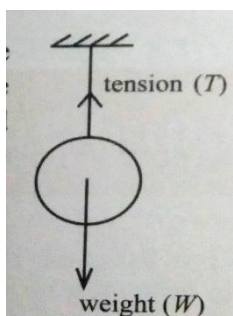




Equilibrium of forces

1. The sphere is in equilibrium which is suspended by a strong string.



Write an expression using the weight and tension.

- 2.If you are provided with a ring and two spring balances, plan an activity to show that an object is in equilibrium under two forces, and write your planned activity by explaining it step by step.

3.



Above wooden block is in equilibrium. Its resultant force is zero. Find the value of X.

4. Below shows a florescent bulb which is in equilibrium, and it is suspended on a ceiling. The weight of the bulb is W , and the tension of strings are T_1 and T_2 respectively. Mark these forces in the diagram and obtain the equation.



5. Write 3 conditions that must be satisfied in order for an object to maintain equilibrium under the action of 3 forces.