**Pulley’ing Your Own Weight Worksheet**

In the drawing of a fixed pulley, below, notice the location of the weight and applied force.

A picture containing drawing, clock

Description automatically generated

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| 1. Draw a movable pulley (string, pulley, weight) and label the forces (weight, applied force). 2. Draw a two-pulley system with one movable pulley and one fixed pulley. Label the forces. 3. What is the weight of the object you will lift? Remember to indicate the units.   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. How much force is required to life the object in each test case?   Read the spring scale and record in the table, below.   |  |  | | --- | --- | | **Object Being Weighed** | **Force Needed to Lift?** | | Object along |  | | Object with fixed pulley |  | | Object with movable pulley |  | | Object with two-pulley system |  |  1. Write a paragraph comparing how much force is needed to raise the object in all four cases.   Your paragraph should be at least three sentences long. |