**Work and Power Assignment:
Calculating Work:**

1. A book weighing 1.0 N is lifted 2 m. How much work was done?

2. A force of 15 N is used to push a box along the floor a distance of 3 m. How much work was done?

3. It took 50 J to push a chair 5 m across the floor. With what force was the chair pushed?

4. A force of 100 N was necessary to lift a rock. A total of 150 J of work was done. How far was the rock lifted?

5. It took 500 N of force to push a car 4 m. How much work was done?

6. A young man exerted a force of 9,000 N on a stalled car but was unable to move it. How much work was done?

Calculating Power

1. A set of pulleys is used to lift a piano weighing 1,000 N. The piano is lifted 3 m in 60 s. How much power is used?

2. How much power is used if a force of 35 N is used to push a box a distance of 10 m in 5 s?

3. What is the power of a kitchen blender if it can perform 3,750 J of work in 15 s?

4. How much work is done using a 500 W microwave oven for 5 mins.

5. How much work is done using a 60 W light bulb for 1 hour?