**Power Drag Introduction Sheet Answer Key**

**Instruction**: Watch the video using the following link and then answer the following questions.

<https://www.youtube.com/watch?v=ZqCMR7PjZRU>

1. What are the two things that must happen for work to be done on the object?

There should be a force applied and the object must move.

1. What is the formula/equation for work?\_\_\_\_\_\_W= F . d\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the unit of work? \_\_\_\_\_\_\_\_\_Joules (J)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. How is power defined in physics?

Rate of doing work or how fast the work is done.

1. What is the formula/equation for power?\_\_\_\_\_P=W/t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the unit for power? \_\_\_\_\_\_\_\_\_Watts (W)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What are two ways to increase power?

Increase the work done or decrease the time the work is applied.