

### **Answer Question #65053-Physics-Other**

How might the amount of work change if the mass were greater?

#### **Answer**

*The amount of work increases.*

The formula for work is

$$W = Fd,$$

where F is force and d is displacement.

According the second Newton's law:

$$F = ma.$$

Thus,

$$W = mad$$

$$W \sim m.$$

Answer provided by <https://www.AssignmentExpert.com>