

Review

Define the following terms:

force _____

work _____

energy _____

In the following pairs of items, which object has the greater gravitational force? (Circle the correct answer in each pair.)

a banana or a bowling ball

a car or a bicycle

the Moon or the Earth

the Earth or the Sun

Answer the following questions:

- ▶ Is a book sitting on a shelf doing work? _____
- ▶ Is a bowling ball crashing into the pins doing work? _____
- ▶ How much work is done if you lift a 3 kg box 2 meters (or a 6.6 lb box 6.6 feet)? _____
- ▶ How much work is done if you lift a 2 kg box 3 meters (or 4.4 lb box 9.9 feet)? _____

List some forms of energy: _____

Challenge:

Do you think that if we could get every person on the Earth to jump all at once, we could move the Earth? Why or why not? Can you do a rough calculation to test your theory?