

## ENERGY QUESTIONS - SHOW WORKING

### 1. ACTIVE ENERGY:

- a) You have this kind of energy if you are running! ....
- b) An alarm clock wakes you up with this kind of energy! ....
- c) You get this kind of energy from a cooker! ....
- d) A light bulb gives off lots of this energy! ....
- e) This energy makes things like hairdryers and lighting work! ....

### 2. STORED ENERGY:

- a) You find this energy stored in food and batteries! ....
- b) You find this energy stored in a bungee rope! ....
- c) You gain this kind of energy at the top of a roller coaster! ....

### 3. CONVERSIONS:

For each of the following, convert Watts into Kilowatts;

- a) 3000 W = ..... kW
- b) 10000 W = ..... kW
- c) 500 W = ..... kW
- d) 111000 W = ..... kW
- e) 450 W = ..... kW

For each of the following, convert Minutes into Hours;

- f) 60 minutes = ..... hours
- g) 15 minutes = ..... hours
- h) 120 minutes = ..... hours
- i) 90 minutes = ..... hours
- j) 50 minutes = ..... hours

For each of the following, convert Mass into Newtons;

- f) 100g = ..... Newtons
- g) 1Kg = ..... Newtons
- h) 12.45Kg = ..... Newtons