

## MEMORANDUM

A.1. Anything from lights in the house, the stove, the fridge, boiling the kettle, to using a hair dryer

B.3.1. Heat energy

B.3.2. Heat energy (and movement energy of the water)

B.3.3. Heat and light energy

B.3.4. Heat and sound and movement energy

B.3.5. Sound and movement (air) energy

B.3.6. Movement energy and sound energy

B.3.7. Movement and sound energy, and heat energy (the motor and drill bit gets hot)

Light energy source	Heat energy source	Sound energy source	Stored energy source
Sun	Fire	Drums	Food
Candle	Sun	Talking	Coal
Torch	Stove plate	Guitar	Petrol
Lamp	kettle	radio	oil

C.1. Your ears.

C.2. They can feel the vibrations through their feet or hands. They can feel the music.

C.3. You use your eyes.

Appliance	Input Energy	Output Energy
Radio	Chemical or electrical	Sound
Hair dryer	electrical	Heat and moving energy
Car moving	Chemical from petrol	Moving energy and heat
Riding a bicycle	Chemical from food	Moving energy and heat
Playing drums	Chemical and moving	Sound
Lights in your home	electrical	Light and heat
Plants growing	Light and heat/solar	chemical

C.4. The word **transfer** means 'to move from one person, place, or object, to another'. Therefore, 'energy transfer' means that energy has moved from one object to another, for example, from a battery to a torch bulb.

C.5. Food , petrol, battery