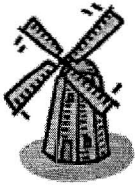


Energy Transformation Worksheet

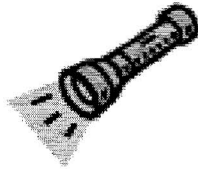
Identify the different types of energy transformation in each of the pictures

Windmill



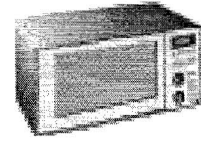
Energy Transformation:

Flashlight



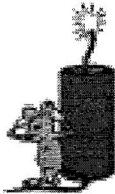
Energy Transformation:

Microwave



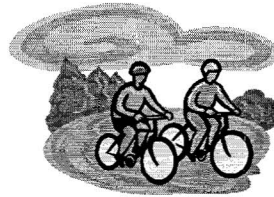
Energy Transformation:

Firecracker



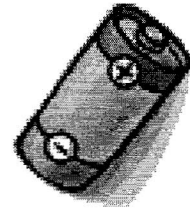
Energy Transformation:

Bicycle



Energy Transformation:

Battery



Energy Transformation:

Give an example where the following energy changes would take place:

Electrical to Thermal

Chemical to Thermal

Electrical to Mechanical

Energy Transformation Notes

Energy – ability to cause change

EVERYTIME A CHANGE OCCURS ENERGY IS PRESENT

Law of Conservation of Energy – Energy can *NEVER* be created or destroyed, only transferred

Examples:

- Solar calculator (light to electrical)
- Windmill (mechanical to electrical)
- Glow stick (chemical to light)
- Firecracker (chemical to sound and light)

Turbine – device used to change energy sources into useable electricity by rotating it

- Any time electricity needs to be used it requires the use of a turbine