

Title: identify different forms of energy and carry out simple experiments to show the following energy conversions:

- a. chemical energy to electrical energy to heat energy
- b. electrical energy to magnetic energy to kinetic energy
- c. light energy to electrical energy to kinetic energy

(OP20)

Student Name: _____

Other students in Group: _____

a. chemical energy to electrical energy to heat energy

Preparation and planning

Apparatus/resources needed _____

Procedure

Labelled Diagram

Outline of method _____

Safety Precautions taken _____

b. electrical energy to magnetic energy to kinetic energy

Preparation and planning

Apparatus/resources needed _____

Procedure

Labelled Diagram

Outline of method _____

Safety Precautions taken _____

c. light energy to electrical energy to kinetic energy

Preparation and planning

Apparatus/resources needed _____

Procedure

Labelled Diagram

Outline of method _____

Safety Precautions taken _____

Results and Conclusions

What happened in all of the above experiments? _____

What does the **principle of conservation of energy** state? _____

General comment/recommendations _____

Teacher Name: _____ Date of completion: _____

Student signature: _____