

Subject: Integrated science

Topic: Forms of energy and energy change

Level: S.1

Learning objectives:

1. Content

Students should be able to:

Identify forms of energy stored and produced in different ways.

Identify the energy changes which occur in different

Identify the energy converter in energy change processes

2. Language

Students should be able to:

Use passive verbs to describe energy change

This activity was produced by a Leung Ka Po

Activity adapted from: --

S.1 Integrated Science
Energy
Forms of energy
Worksheet 1

Name: _____ Class: _____ No.: _____ Date: _____



Group activity

1. If there were no electricity, how would your life would be different? Write down three ways.

Forms of energy

Different forms of energy are stored or produced in different ways. The table below shows some examples. Fill in empty columns with examples of *EITHER* how this form of energy is stored *OR* how it is produced.

Here are some words that might be useful:

heater, desk lamp, nuclear power station, battery, moving car, stretched rubber band, loudspeaker

| Forms of energy | Example of how it is stored | Example of how it is produced |
|------------------|-----------------------------|-------------------------------|
| heat energy | | |
| light energy | | |
| sound energy | | |
| kinetic energy | | |
| potential energy | | |
| chemical energy | | |

| | | |
|-------------------|--|--|
| electrical energy | | |
| nuclear energy | | |

Answer the following questions using the table.

1. What form of energy does a heater produce?

A heater **produces** heat energy.

2. What form of energy does a desk lamp produce?

_____.

3. What form of energy does a loudspeaker produce?

_____.

4. What form of energy does a moving car have?

A moving car **has** _____.

4. What form of energy does a stretched rubber band store?

A stretched rubber band **stores** _____.

5. What form of energy does a moving car store?

_____.

6. What form of energy does a battery produce?

_____.

7. What form of energy does a nuclear power station have?

_____.