#### PHAKANI COMBINED SCHOOL GRADE 8

SUBJECT: TECHNOLOGY

EDUCATOR: MR TW TSHABALALA

STUDY AREA: ELECTRICAL SYSTEMS AND CONTROL	TERM: 4	DATE: 04 - 05 November 2014
TOPIC: GENERATING ELECTRICITY	WEEK: 3	TIME/DURATION: 100 minutes

#### Prior knowledge Introduction:

Learners are aware of the components of electric circuits.

They know about electrochemical cells and photovoltaic cells.

They realize their own dependence on electricity and its importance on our lives.

Many sectors of the economy in our country need electricity for production, which increases the demand for electricity even though the supply its supply is limited by environmental issues.

#### Common misconceptions:

- Many learners are not aware of the range of alternative energy sources being developed.
- Those who have the idea how electricity is generated in SA only have a limited understanding and believe that electricity is generated from coal.

#### Content:

Thermal power stations. Coal power station, Solar power stations and Nuclear power stations.

Hydroelectric power stations.

Wind-driven turbines.

#### Alternating current

#### Teacher activities:

- Encourage learners to be more aware of their environment and identify environmental examples of energy sources.
- Make a presentation on how the thermal power stations, hydroelectric power stations and winddriven turbines.
- Discuss the advantages and disadvantages of each method of electricity generation.
- Discuss alternating current, step-up and step-down transformers and how electricity is distributed across the country through the national grid.

#### Learner activities:

- Take part in class discussions, asking for clarification and sharing their understanding.
- Completing classwork.
- Completing homework.

#### Class work:

Student worksheet printout

Learner book:

Page 171 Activity 1: Fossil fuels.

Page 172 Activity 2: Nuclear power.

#### Home work.

Page 172 Activity 3: Nuclear power.

# **Platinum Caps Technology Lesson Plan**

J Rink

**Platinum Caps Technology Lesson Plan:** 

Unveiling the Magic of Words: A Review of "Platinum Caps Technology Lesson Plan"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Platinum Caps Technology Lesson Plan**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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