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SECOND TERM E-LEARNING NOTE

SUBJECT: PHYSICS **CLASS: SS 1**

SCHEME OF WORK

WEEK	TOPIC
1.	Heat Energy, Concept of Heat and Temperature, Effects of Heat and Uses
2.	Thermometer and Its Type, Evaporation and Boiling
3.	Expansion of Solid, Effect and Applications of Expansion
4.	Expansivity and Its Application – Linear, Area and Volume. Anomalous Expansion of Water. Real and Apparent Expansivity
5.	Heat Transfer – Conduction, Convection, Radiation and Their Applications
6.	Electric Charges – Production, Types, Distribution and Storage
7.	Gold Leaf Electroscope and its Uses. Lighting and Lighting Conductor
8.	Fields – Concept and Types of Field. Gravitational and Magnetic Field, Force of Gravity
9.	Electric Field – Line of Forces, Properties of Line of Force, Description and Properties of Force Field
10.	Production of Continuous Electric Current

REFERENCE BOOK

- New School Physics By M.W Anyakoha
- Senior Secondary School Physics By P.N Okeke

WEEK ONE

TOPIC: Heat Energy, Concept of Heat and Temperature and Effects of Heat

CONTENT

- ✓ Concept of Heat
- ✓ Temperature
- ✓ Effect of Heat on bodies.

Concept of Heat

Heat is a concept of physics that deals with the study of relative motion of fluid (liquid and gas) from one body to another. It is a form of energy that can be transferred from one body due to temperature differences.

Temperature

Temperature is the degree of hotness and coldness of a body or an object. It is a scalar quantity, measured in Kelvin. Heat and Temperature are similar but not the same

Differences between Heat and Temperature

1. Heat is a measure of the total internal energy of a body while temperature is the degree of hotness or coldness of the body.
2. Heat takes place due to temperature difference while temperature occurs due to slight change of substance.

3. Heat is measured in joules while temperature is measured in Kelvin / Celsius.

Effect of Heat

When heat is applied to a body the following effect may occur

1. Expansion: when heat is applied, volumes increases while…