# EaD Comprehensive Lesson Flans



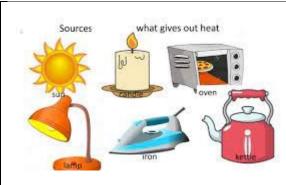
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BASIC 8

WEEKLY LESSON PLAN – WEEK 4

Strand:	Forces and E	nergy Sub-Strand			Energy				
	B8.4.1.3 Demonstrate understanding of the relationship between heat and temperature.								
Content Standard:									
Indicator (s)	B8.4.1.3.1 Discuss the differences and the relationship between heat and temperature in the environment  Performance Indicator: Learners can explain the meaning of heat and temperature.								
Week Ending	28-04-2023								
Class	B.S.8	Class Size:		Duration:					
Subject	Science								
Reference	Science Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.								
Teaching / Learning Resources	Poster, Pictures, Video, Power Point Presentation.		Core	<ul><li>Pro</li><li>Di</li><li>Co</li></ul>		Critical thinking Problem solving Digital Literacy Communication and Collaboration			
DAY/DATE	PHASE 1 : STARTER		PHASE 2:	PHASE 2: MAIN		PHASE 3: REFLECTION			
MONDAY 24-04-2023	Discuss the meanings of keywords and terminologies in the lesson.  Keywords;	<ol> <li>Discuss the differences between heat and temperature with the Learners.</li> <li>Assist learners to identify the uses of heat.</li> <li>Demonstrate how to measure the heat of an object with a formula.</li> <li>Learners brainstorm to measure heat of objects.</li> </ol>			Through questions and answers, conclude the lesson.				
	<ol> <li>Heat</li> <li>Temperature</li> <li>Hotness</li> <li>Coldness</li> <li>Joules</li> <li>Energy.</li> <li>calories</li> </ol>		the thermal 1. Temper thermal 5 temperature 2. Temper gain or 1 temperature 3. Temper can be a portioular 4. Temper measure flow, on not rely on 5 temperature flow inchines the ordinary of 7. Temper thermore	thermal state of a physical body (or system).  2. Temperature variation can be the result of gain or loss of heat.  3. Temperature is not exchangeable. Only heat can be exchanged.  4. Temperature of a particular body can be measured. Moreover, temperature does not flow.  5. It is the temperature that decides whether or not heat flow will occur between two bodies.  6. Temp, as fundamental property of the matter.		1. Tabulate 3 difference between Heat and Temperature. 2. Explain 2 uses of heat.			

		Heat	Temperature	
		The heat energy from the stove burner warms up the water.	The thermometer measures the temperature of the water.	
			Boiling water = 212°F (100°C)	
		STORES.	0.04	
		11111	1111	
		Heat	Temperature	
		i. Heat is a form of		
		internal energy obtained due to	i. Temperature is the quantity which determines the	
		random motion a attractive	direction of flow of heat between two bodies at	
		force of molecule in a	kept in contact.	
		ii. Its S.I. un is joule (	ii. Its S.I. unit is	
		iii. It is measure by the principle	measured by	
		calorime	try. thermometer.	
THURSDAY	Review Learners knowledge on the	<ol> <li>Learners brains heat.</li> </ol>	Reflect on the uses of Heat.	
27-04-2023	previous lesson.	<ol> <li>Discuss 5 properties</li> <li>Assist Learners</li> </ol>	Exercise;	
		Sources of Heat;	State 3 sources     of heat.	
		• Sun.	2. Explain 5	
		• Earth.	properties of	
		Chemical energy	heat. 3. Mention 4	
		Electrical energy	types of heat	
		<ul><li>Atomic energy</li><li>Air.</li></ul>		and explain.



### **Properties of Heat;**

- Thermal conductivity
- Density
- Viscosity
- o melting point/glass transition temperature
- heat capacity.

### Uses of Heat;

- Heat is used to make things warm, to boil water and fry eggs and to melt metal to build cars.
- Heat is used to generate electricity at a thermal power plant for our daily lives.
- Temperature is the measure of how hot or cold matter is.



## **Types of Heat Transfer**







Radiation



Touching a hot pot

t The Sun's heat rays

**FRIDAY** 

28-04-2023

Discuss with Learners the properties of temperature.

- 1. Using PowerPoint Presentation, explain 3 types of temperature.
- 2. Learners in small groups to discuss 5 uses of Temperature.
- 3. Discuss the relationship between Heat and Temperature with the Learners.

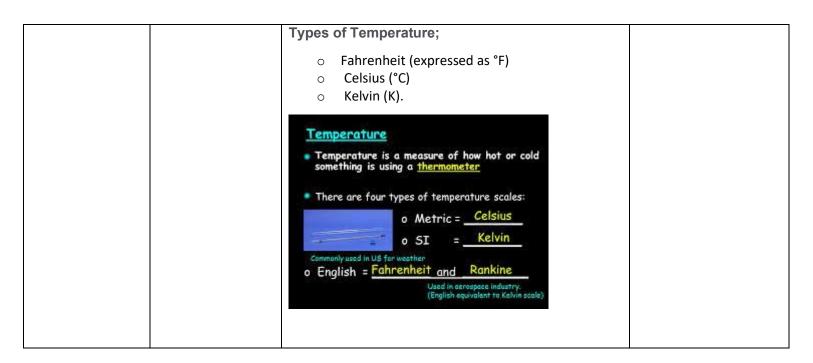
### Temperature;

Temperature is a physical quantity that expresses quantitatively the perceptions of hotness and coldness. Temperature is measured with a thermometer. Thermometers are calibrated in various temperature scales that historically have relied on various reference points and thermometric substances for definition.

Through questions and answers, conclude the lesson.

### Exercise;

- Explain 3 types of Temperature.
- 2. Write 5 uses of Temperature



Name of Teacher: School: District: