# EaD Comprehensive Lesson Flans



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BASIC 7

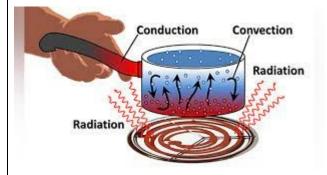
# **WEEKLY LESSON PLAN – WEEK 8**

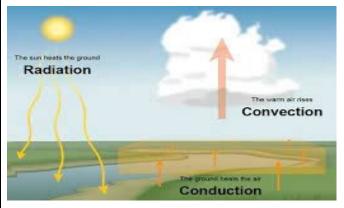
Strand:	Forces and Energy		Sub-Stra	ınd:	Ener	gy		
Content Standard:	B7.4.1.2 Demonstrate	e understanding o	f concept of	of heat tran	nsfer an	nd its applic	ation in life	
Indicator (s)	B7.4.2.1.1 Explain ho various media.	7.4.2.1.1 Explain how heat is transferred in rious media.  Performance Indicator: Learn various media of heat transfer.						
Week Ending	26-05-2023							
Class	B.S.7	Class Size:		Duration:				
Subject	Science	1						
Reference	Science Curriculum, Teachers Resource Pack, Learners Resource Pack.							
Teaching / Learning Resources	Pictures, Video, cott Charts, Power point F	Presentation.  Competencies:  Proble  Comp				gital Literacy itical Thinking and oblem Solving ommunication and ollaboration.		
DAY/DATE	PHASE 1 : STARTER	PHASE 2: M	AIN				PHASE 3: REFLECTION	
MONDAY 22-05-2023	Discuss the meaning of "heat transfer" with the Learners.	<ol> <li>Assist Learners to identify the various media of heat transfer.</li> <li>Learners brainstorm to identify the properties of the various media of heat transfer.</li> <li>Demonstrate how heat is transferred through different media.</li> <li>Discuss with Learners about the methods of heat transfer.</li> <li>Heat Transfer;</li> <li>Heat transfer is a discipline of thermal engineering that concerns the generation, use, conversion, and exchange of thermal energy (heat) between physical systems. Heat transfer is classified into various mechanisms, such as thermal conduction, thermal convection, thermal radiation, and transfer of energy by phase changes.</li> </ol>				of Each group to demonstrate a method of heat transfer.		



## Methods of Heat Transfer;

- Convection
- Conduction
- thermal radiation
- evaporative cooling.





TOTAL CO. L. T.
THURSDAY
THURSDAT

25-05-2023

Review Learners knowledge on the previous lesson.

- 1. Assist Learners to identify 3 types of heat transfer.
- 2. Discuss meanings of the types of heat transfer with the Learners.
- 3. Demonstrate on how radiation transfer heat or Learners to observe.
- 4. Learners brainstorm to mention examples of how radiation transfer heat.

### Types of Heat Transfer;

- radiation.
- conduction.
- convection.

Through questions and answers, conclude the lesson.

### Exercise;

- 1. State 3 types of heat transfer.
- 2. Explain how

		How radiation tra	ansfer heat:		radiation	
		Radiation heat tra		lectromagnetic	transfer	
		waves. Unlike cor	heat.			
		not need a mediu				
				acuum to warm the		
				mal energy between		
		bodies separated				
		CI CI	ONVECTION			
				RGY		
		•				
		₩	-			
		<b>~~</b> <	HEAT	CTION		
		<b>~~~</b>				
		RADIATION				
		Heat transfer by r				
		infrared radiation	_			
		electromagnetic r				
		-		the Earth by the Sun.		
		A less obvious exa				
EDID 437		human body.	1100	1		
FRIDAY	Learners	_		between the three	Through questions	
	brainstorm to	7 *	neat transfer.		and answers,	
	identify examples		rate on activities t	•	conclude the	
26-05-2023	of radiation heat	convectiv	lesson.			
	transfer in	3. Assist Lea				
	everyday life.	convectio				
		transfer.				
		Difference betwe Radiation of heat				
		Conduction	Convection	Radiation		
		In conduction, heat transfer	In convection, the heat transfer takes	In radiation, heat transfer occurs through		
		occurs between objects by direct contact.	within the fluid.	electromagnetic waves without involving particles.		
		The heat transfer takes place due to the difference in	Heat transfer occurs due to the difference in density.	The heat transfer occurs in all objects with a temperature greater than 0 K.		
		place due to the difference	the difference	objects with a temperature		

Heat transfer in conduction is slow	Heat transfer in convection is faster.  Heat transfer	Heat transfer in radiation is the fastest.  Heat transfer	
occurs through a heated solid object.	occurs through intermediate objects. For example, heat transfer between air and water.	occurs through electromagnetic waves.	
It does not follow the law of reflection and refraction.	It does not follow the law of reflection and refraction.	It follows the law of reflection and refraction.	

Name of Teacher: School: District: