EaD Comprehensive Lesson Plans





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BASIC 7

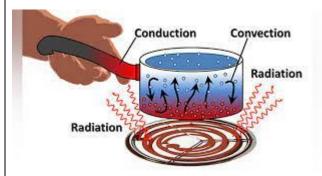
WEEKLY LESSON PLAN – WEEK 7

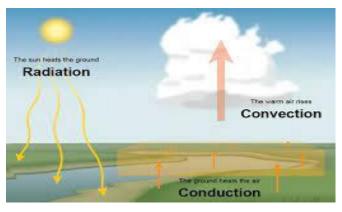
| Strand: | Forces and Energy | S | ub-Stra | ınd: | Energ | У | |
|----------------------------------|--|---|-----------|---|-----------|--|--|
| Content Standard: | B7.4.1.2 Demonstrate | understanding of | concept | of heat tran | nsfer and | d its applica | ation in life |
| Indicator (s) | B7.4.1.2.1 Explain an is transferred in various | | heat | | | dicator: Le heat transf | earners can identify the er. |
| Week Ending | 23-02-2024 | | | | | | |
| Class | B.S.7 | Class Size: | ass Size: | | Duration: | | |
| Subject | Science | | | | | | |
| Reference | Science Curriculum, | Teachers Resource | Pack, L | earners Res | source F | Pack. | |
| Teaching / Learning Resources | Pictures, Video, cotton, polyester, Charts, Power point Presentation. | | | Competencies: • Critica Problem • Comm | | | cital Literacy tical Thinking and blem Solving mmunication and laboration. |
| DAY/DATE | PHASE 1 : STARTER | PHASE 2: MA | IN | | | | PHASE 3: REFLECTION |
| MONDAY | | Assist Learners to identify the various media of heat transfer. Learners brainstorm to identify the properties of the various media of heat transfer. Demonstrate how heat is transferred through different media. Discuss with Learners about the methods of heat transfer. Heat Transfer; 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. | | | | Each group to demonstrate a method of heat transfer. | |



Methods of Heat Transfer;

- Convection
- Conduction
- thermal radiation
- evaporative cooling.





THURSDAY

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;

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

| | | How radiation tra | ansfor heat: | | radiation |
|---------|-------------------------------------|--|--|--|---------------------------|
| | | | ansfer occurs via e | lectromagnetic | transfer |
| | | | | ection, radiation does | heat. |
| | | | ım for transmissio | | neut. |
| | | | | acuum to warm the | |
| | | | | mal energy between | |
| | | | by a colder medi | | |
| | | · · | ONVECTION | | |
| | | | | RGY | |
| | | | 111: AND | RG1 | |
| | | •• | 5.5.5. | | |
| | | | ~ | - | |
| | | *** | HEAT CONDU | CTION | |
| | | ~~~ | | | |
| | | RADIATION | | | |
| | | | radiation occurs w | | |
| | | infrared radiation | _ | | |
| | | _ | | d or absorbed. An | |
| | | • | _ | the Earth by the Sun. | |
| | | A less obvious ex | | | |
| EDID AT | | human body. | | | |
| FRIDAY | Learners | _ | | between the three | Through questions |
| | brainstorm to | | neat transfer. | hat avalains | and answers, conclude the |
| | identify examples of radiation heat | | rate on activities t re and conduction | • | lesson. |
| | transfer in | | rners to perform | | lesson. |
| | | | | | |
| | | CONVECTIO | n at hast tranctor | and conduction heat | |
| | everyday life. | | on of heat transfer | and conduction heat | |
| | everyday life. | transfer. | on of heat transfer | and conduction heat | |
| | everyday life. | transfer. | | | |
| | everyday life. | transfer. | en Conduction, C | | |
| | everyday life. | transfer. Difference between | en Conduction, C | | |
| | everyday life. | transfer. Difference betwee Radiation of heat | een Conduction, C t transfer. Convection | onvection and Radiation | |
| | everyday life. | Difference betwee Radiation of heat | cen Conduction, Convection In convection, | Radiation In radiation, heat | |
| | everyday life. | Conduction In conduction, | cen Conduction, Convection In convection, the heat | Radiation In radiation, heat transfer occurs | |
| | everyday life. | Conduction In conduction, heat transfer | cen Conduction, Convection In convection, the heat transfer takes | Radiation In radiation, heat transfer occurs through | |
| | everyday life. | Conduction In conduction, heat transfer occurs | cen Conduction, Convection In convection, the heat transfer takes within the | Radiation In radiation, heat transfer occurs through electromagnetic | |
| | everyday life. | Conduction In conduction, heat transfer occurs between | cen Conduction, Convection In convection, the heat transfer takes | Radiation In radiation, heat transfer occurs through electromagnetic waves without | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by | cen Conduction, Convection In convection, the heat transfer takes within the | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct | cen Conduction, Convection In convection, the heat transfer takes within the | Radiation In radiation, heat transfer occurs through electromagnetic waves without | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by | cen Conduction, Convection In convection, the heat transfer takes within the | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct contact. | cen Conduction, Convection In convection, the heat transfer takes within the fluid. | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving particles. | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct contact. The heat | cen Conduction, Convection In convection, the heat transfer takes within the fluid. | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving particles. The heat transfer | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct contact. The heat transfer takes | cen Conduction, Convection In convection, the heat transfer takes within the fluid. Heat transfer occurs due to | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving particles. The heat transfer occurs in all | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct contact. The heat transfer takes place due to | cen Conduction, Convection In convection, the heat transfer takes within the fluid. Heat transfer occurs due to the difference | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving particles. The heat transfer occurs in all objects with a | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct contact. The heat transfer takes place due to the difference | cen Conduction, Convection In convection, the heat transfer takes within the fluid. Heat transfer occurs due to | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving particles. The heat transfer occurs in all objects with a temperature | |
| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct contact. The heat transfer takes place due to the difference in | cen Conduction, Convection In convection, the heat transfer takes within the fluid. Heat transfer occurs due to the difference | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving particles. The heat transfer occurs in all objects with a | |
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| | everyday life. | Conduction In conduction, heat transfer occurs between objects by direct contact. The heat transfer takes place due to the difference in | cen Conduction, Convection In convection, the heat transfer takes within the fluid. Heat transfer occurs due to the difference | Radiation In radiation, heat transfer occurs through electromagnetic waves without involving particles. The heat transfer occurs in all objects with a temperature | |

| in conduction is slow | in convection is faster. | radiation is the fastest. |
|--|--|---|
| Heat transfer occurs through a heated solid object. | Heat transfer occurs through intermediate objects. For example, heat transfer between air and water. | Heat transfer 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: