

14 – Heat and Temperature

01. Tasks to be done by student :

- Study about **Conduction** and **Convection** by studying the contents well under the sub topic of **Heat transfer** on pages 49 to 54 of your text book.
- Do the **Activity 14.8** on page 50 and **Activity 14.9** on page 53 of your text book.
- Pay attention on **Activity 14.10** on page 53.
- Study about **Sea breeze** and **Land breeze** by studying the contents well under the sub topic of **Application of convective currents** on pages 54 to 56 of your text book.
- Do the **Activity 14.11** on page 55 of your text book.
- Study the contents well under the sub topic of **Radiation** on pages 55 and 56 of your text book.
- Prepare a short note what you learnt here.

02. Resources that can be used for above activities :

- Pupils text book – part II (pages 49 to 56)
- E-nenapiyasa
<https://www.enenapiyasa.lk/lms/course/view.php?id=22#section-14>
- E-Thaksalawa
<https://www.e-thaksalawa.moe.gov.lk/moodle/course/view.php?id=966#section-14>
- NIE Guru Gedara
<https://www.youtube.com/watch?v=ncLXvIIRdyE>

03. Learning outcomes to be achieved in this lesson :

- Explain the methods of transference of heat
- Describe land breeze and sea breeze using convection
- Conduct simple activities to demonstrate conduction, convection and radiation of heat

04. Evaluation :

- 1) Select the suitable word to fill the blanks from the words given in the brackets.
 - i. International unit of measuring temperature is(degrees celsius/Kelvin)
 - ii. Heat transfers from the sun to the earth by(conduction/radiation)
 - iii. Aluminium pot on a hearth, heats mainly by getting heat by ..(conduction/convection)
 - iv. Temperature, at which liquid water converts to ice is called the of water at atmospheric pressure. (boiling point/ freezing point)
 - v. Sea breeze and land breeze occur because of the phenomenon of in the air. (convection/radiation)