

## **Student Version of Outcomes**

**109-1** Tell how organisms in an ecosystem can be classified by identifying similar characteristics.

**109-12** Identify when a term has a scientific meaning.

**109-13** Explain why it is important to use words with precise scientific meanings.

**208-2** Propose questions from practical problems that can be investigated.

**208-3** Clarify questions to help in choosing what the procedure of investigations should be.

**209-1** Carry out procedures controlling the major variables.

**209-4** Organize data in a way that is appropriate for the investigation.

**211-5** Using your findings, explain and support your conclusions.

**304-2** Identify the roles of producers, consumers, and decomposers in a local ecosystem, and describe both their diversity and their interactions.

**306-2** Describe how matter is recycled in an ecosystem through interactions among living things

**306-3** Describe interactions between biotic and abiotic factors in an ecosystem

# HEAT TRANSFER

## Student Version of Outcomes

**111-5** Explain heat transfer in heating systems in houses.

**113-4** Describe how heating technologies has affected lives.

**209-1** Carry out procedures controlling the major variables.

**209-3** Use instruments accurately for collecting data.

**210-10** Identify potential sources of error in data while investigating heat.

**210-11** Make conclusions, based on data, and explain how the data relates to the initial question.

**210-12** Relate how experiments involving colour and heat absorption can be applied to the real world.

**211-2** Communicate questions, ideas, intentions, plans, and results using a variety of means.

**308-5** Compare transfer of heat by conduction, convection, and radiation.

**308-6** Explain how colour and texture of surfaces affects heat absorption.

# EARTH'S CRUST- PLATE TECTONICS

## **Student Version of Outcomes**

- 110-4** Describe how plate tectonic theory has changed because of additional geological evidence.
- 209-4** Organize data in a way that makes sense for the problem or question being solved.
- 209-6** Use tools and apparatus safely
- 210-6** Make conclusions based on patterns and trends in data, and explain relationships.
- 210-12** Relate how experiments with models can explain changes in the Earth's surface.
- 311-1** Explain how mountains are formed as a result of forces acting on the Earth's surface.
- 311-4** Compare the effects of various earthquakes and volcanic eruptions.
- 311-5** Look at data of catastrophic events to determine patterns and trends.

## Student Version of Outcomes

- 109-7** Tell different ways that questions are answered, problems are solved or decisions are made
- 112-7** Tell how science and technology affects your life and community
- 209-3** Use instruments accurately for collecting data.
- 209-6** Use instruments and materials safely
- 210-16** Write new questions about mixtures that could be investigated scientifically.
- 307-1** Use the particle model of matter to explain the difference between pure substances and mixtures.
- 307-2** Identify and separate the components of mixtures
- 307-3** Describe the characteristics of solutions, using the particle model of matter

