



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 03rd of 3rd Term

Unit 14 – Heat and Temperature(3)

✓ Application of convectional currents

- Sea breeze

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- Land breeze

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✓ Radiation

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Activity 14.11

You will need :- Three equal tin cans, three thermometers, cork stoppers, black and white paint, cold water, few pieces of cardboard, stop clock

Method :-

- Keep one tin can as it is, with the shining outer surface. Paint one of the other tin cans with black paint and final one with white paint (See Figure 14.28).
- Add equal volume of cold water into each tin. Fix a thermometer to each tin can as shown in the figure and measure the initial temperature
- Place all the three cans in the same place in the sun. Measure the temperature in every five minutes time and tabulate the readings.

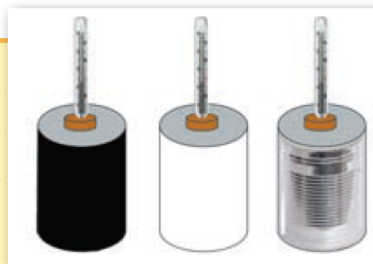


Figure 14.28 ▲

Time (min)	Temperature of water in the cans (°C)		
	Black can	White can	Can with shining surface
0			
5			
10			