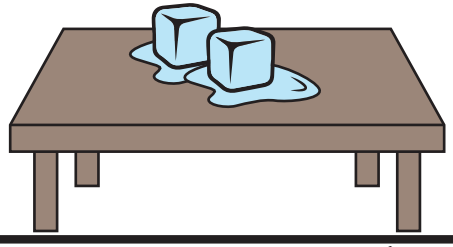
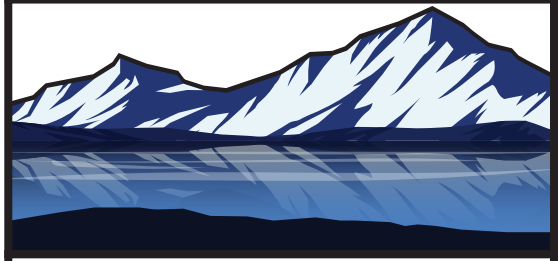
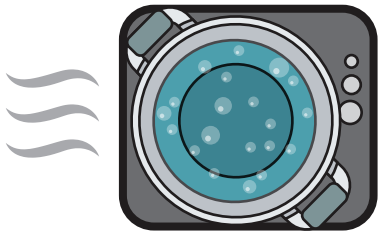
COMPLETE CONCEPT INTEGRATION™ SCIENCE

A SUMMARY OF 7 HEAT PROCESSES

PREPARING TEMPLATE ANSWERS: A SUMMARY OF THE 7 HEAT PROCESSES

Step 1: Identify which object is cooler and which object is warmer.
Step 2: State the transfer of heat between the objects.
***Note:** Heat travels from a HOTTER region to a COLDER region.
Step 3: Identify the heat process involved in the question.

Pictures	Identify The Transfer Of Heat	Identifying The Heat Process	Template Answers
	The **cooler** ice gains heat from the **warmer** surrounding air	Melting	The cooler ice gains heat from the warmer surrounding air and melted, turning from solid to liquid.
	The **warmer** water in the lake loses heat to the **cooler** surrounding air	Freezing	The warmer water in the lake loses heat to the cooler surrounding air and freezes, turning from liquid to solid.
	The **cooler** water gains heat from the **warmer** stove	Boiling	The cooler water gains heat from the warmer stove and boils, turning into steam.

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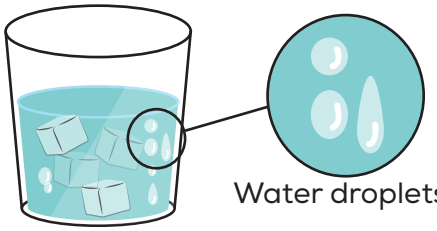
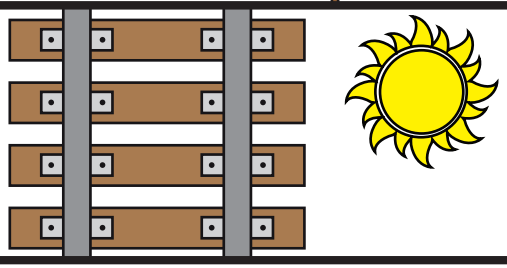
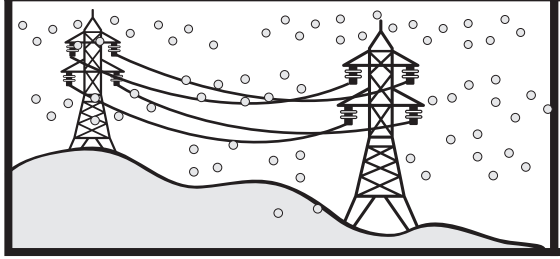
	The **warmer** water vapour in the surrounding air loses heat to the **cooler** cup	Condensation	The warmer water vapour in the surrounding air loses heat to the cooler outer surface of the cup and condenses to form tiny water droplets.
	The **cooler** water in the clothes gains heat from the **warmer** sun	Evaporation	The cooler water in the clothes gains heat from the warmer sun and evaporates to form water vapour.
	The **cooler** railroad tracks gain heat from the **warmer** sun	Expansion	The gaps prevent the tracks from buckling during hot days when the cooler railroad tracks gain heat from the warmer sun to expand and increase in volume.
	The **warmer** electrical wires lose heat to the **cooler** surrounding air	Contraction	The electrical wires are loosely hung to prevent them from snapping during cold days when the warmer electrical wires lose heat to the cooler surrounding air to contract and decrease in volume.

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