

Chapter 10 Planning Chart: 3-D Geometry

Cross-Curricular Competency: Uses creativity. The Chapter Task provides students with an opportunity to be creative in producing a gift box.

Broad Area of Learning: Environmental Awareness. Lesson 1 and the Chapter Task deal with product packaging. Use these opportunities to discuss efficient packaging and reduction of waste in the context of improving the environment.

Content	QEP Concepts	QEP Processes	Addressing Concepts and Processes
Getting Started: Colouring Cubes, pp. 346–347			Assessment Opportunity
Lesson 1: Building and Packing Prisms, pp. 348–349	<i>Geometry: Geometric Figures and Spatial Sense</i> <ul style="list-style-type: none"> • Solids <ul style="list-style-type: none"> • Right prisms, right pyramids, and right cylinders 		
Mental Imagery: Painting Cubes, p. 349	<i>Geometry: Geometric Figures and Spatial Sense</i> <ul style="list-style-type: none"> • Solids <ul style="list-style-type: none"> • Right prisms, right pyramids, and right cylinders 		Optional
Lesson 2: Building Objects from Nets, pp. 350–353	<i>Geometry: Geometric Figures and Spatial Sense</i> <ul style="list-style-type: none"> • Solids <ul style="list-style-type: none"> • Right prisms, right pyramids, and right cylinders • Possible nets of a solid • Decomposable solids 		
Lesson 3: Top, Front, and Side Views of Cube Structures, pp. 354–357			Beyond Cycle One. Do not assess.
Mid-Chapter Review: pp. 358–359			Assessment Opportunity Omit the last two of the Frequently Asked Questions. Choose from Questions 1–4.
Lesson 4: Top, Front, and Side Views of 3-D Objects, pp. 360–363			Beyond Cycle One. Do not assess.
Lesson 5: Isometric Drawings of Cube Structures, pp. 364–367			Beyond Cycle One. Do not assess.
Lesson 6: Isometric Drawings of 3-D Objects, pp. 368–371			Beyond Cycle One. Do not assess.
Lesson 7: Communicating about Views, pp. 372–374			Beyond Cycle One. Do not assess.
Math Game: Fishing for Solids, p. 375	<i>Geometry: Geometric Figures and Spatial Sense</i> <ul style="list-style-type: none"> • Solids <ul style="list-style-type: none"> • Right prisms, right pyramids, and right cylinders • Possible nets of a solid • Decomposable solids 		Optional
Curious Math: Perspective Drawing in Art, p. 376	<i>Geometry: Geometric Figures and Spatial Sense</i> <ul style="list-style-type: none"> • Solids <ul style="list-style-type: none"> • Right prisms, right pyramids, and right cylinders • Possible nets of a solid 		Optional

Content	QEP Concepts	QEP Processes	Addressing Concepts and Processes
Chapter Self-Test: p. 377			Self-Assessment Opportunity Choose from Questions 1, 7.
Chapter Review: pp. 378–379			Assessment Opportunity Exclude all of the Frequently Asked Questions. Use Question 2.
Chapter Task: Gift Box Contest, p. 380	<i>Geometry: Geometric Figures and Spatial Sense</i> • Solids • Right prisms, right pyramids, and right cylinders • Possible nets of a solid		Assessment Opportunity Exclude the bullet point under prompt B about top, front, and side views.