

Learning Material Covered in Each Elementary School Cycle

B. Solids, pp. 14-15			
Cycle One	Cycle Two	Cycle Three	Reminder
<p>p. 15, no. B-8 Second year of Cycle Two (Grade 2) Matches the net of</p> <p>a. a prism to the corresponding prism and vice versa</p> <p>b. a pyramid to the corresponding pyramid and vice versa</p>	<p>p. 15, no. B-8 Matches the net of</p> <p>a. a prism to the corresponding prism and vice versa</p> <p>b. a pyramid to the corresponding pyramid and vice versa</p> <p>p. 15, no. B-7 Constructs a net of a prism or a pyramid</p>	<p>p. 15, no. B-8 Matches the net of</p> <p>c. a convex polyhedron to the corresponding convex polyhedron</p>	<p>There is a difference between <i>matching the net of a solid to the corresponding solid</i> and <i>constructing the net of a solid</i>.</p> <p>When I <i>match</i>, I associate the representation of the net with the representation of the solid, or the corresponding solid.</p> <p>When I <i>construct</i>, I use plane figures to represent the faces of a solid.</p> <p>To develop spatial sense, students must first manipulate and observe objects.</p>
C. Plane figures, p. 15			
Cycle One	Cycle Two	Cycle Three	Reminder
<p>p. 15, no. C-1 Compares and constructs figures made with closed curved lines or closed straight lines</p>	<p>p. 15, no. C-5 Identifies and constructs parallel lines and perpendicular lines</p> <p>p. 15, no. C-4 Describes convex and nonconvex polygons</p>		<p>In Cycle One, students construct figures free hand, imprecisely or using graph paper.</p> <p>In Cycle Two, students construct parallel and perpendicular lines using grids, set squares, rulers or tracing paper. Cycle Two students describe and name polygons they see in their environment (e.g. a stop sign is an octagon).</p> <p>Students are expected to be able to identify polygons with 3, 4, 5, 6, 8 and 10 sides.</p>



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D. Frieze patterns and tessellations, pp. 15-16			
Cycle One	Cycle Two	Cycle Three	Reminder
p. 16, no. D-2 Observes and produces patterns using geometric figures	p. 16, no. D-2 Observes and produces patterns using geometric figures		Cycle One students begin learning about patterns by observing and producing non-numerical patterns consisting of geometric figures (See p. 12, no. A-13 a).
	p. 16, no. D-3 Observes and produces frieze patterns and tessellations a. using reflections	p. 16, no. D-3 Observes and produces frieze patterns and tessellations b. using translations	Geometric transformations (reflections and translations) are always performed in the context of frieze patterns and tessellations. They are produced using grids, tracing paper, technology, etc.

