

Connect the Dots

Grade 1 - Mathematics



Lesson Details

Grade Level:	1	Curriculum Links:	Mathematics, Visual Arts	Time Needed:	45 minutes
Learning Goal	To practice basic number sense and numeration skills by counting forward to connect the dots in an image.				
Success Criteria	By the end of this lesson, students will have practice counting by 1's, 2's, 3's, and 5's in order to connect the dots in an image.				
Specific Expectations	<p><i>Mathematics – Number Sense and Numeration</i></p> <ul style="list-style-type: none"> Represent, compare, and order whole numbers to 50, using a variety of tools and contexts; Count forward by 1's, 2's, 5's, and 10's, to 100, using a variety of tools and strategies. <p><i>Visual Arts – Elements of Design</i></p> <ul style="list-style-type: none"> Use a variety of materials, tools, and techniques to respond to design challenges: drawing, mixed media, painting, printmaking, sculpture. 				
Materials Needed	Worksheet (attached), Pencil, Colouring Pencils, Crayons, Markers.				

Lesson Description

Overview	Using the attached worksheet, students will connect the dots (counting by 1's, 2's, 3's, and 5's) to complete an image. Students will then colour the image of the turtle.
Activity	<ol style="list-style-type: none"> Practice counting forward by 1's, 2's, 3's, and 5's together as a class. Next, hand out the attached worksheet. Students will complete the activity independently. Together as a class, count the number of scutes on the turtle's shell that the students just drew and coloured. Optional: display the works of art for the entire class to admire.
Background Information	<p>The top shell of a turtle is called a carapace. The underside of a turtle is called a plastron. Many turtles have distinct carapace shapes (high domed like the Blanding's Turtle) or markings (like spots on the Spotted Turtle) that can be used to identify them. The triangular (or geometric) sections on the carapace are known as scutes. Marginal scutes are found around the carapace and ridges are the nodes (or connections) between them.</p> <p>Painted Turtle: Red colouring underneath carapace and on neck, yellow stripes on face, smooth carapace, pale plastron (under-shell).</p> <p>Snapping Turtle: Rough brown-olive to dark green carapace, large thick legs and toes with sharp claws, very small plastron, pointed jaw-tooth, rough ridges on tail and carapace.</p>
Blacklist Masters	<ul style="list-style-type: none"> Worksheet (attached) For more information, please visit https://www.turtleguardians.com/sample-page/id-turtles/
Place-Based Learning	Where can the students find a turtle in their community? Students are encouraged to visit a natural area to find a turtle and to (from a distance) count the number of scutes on the carapace.

Lesson Description

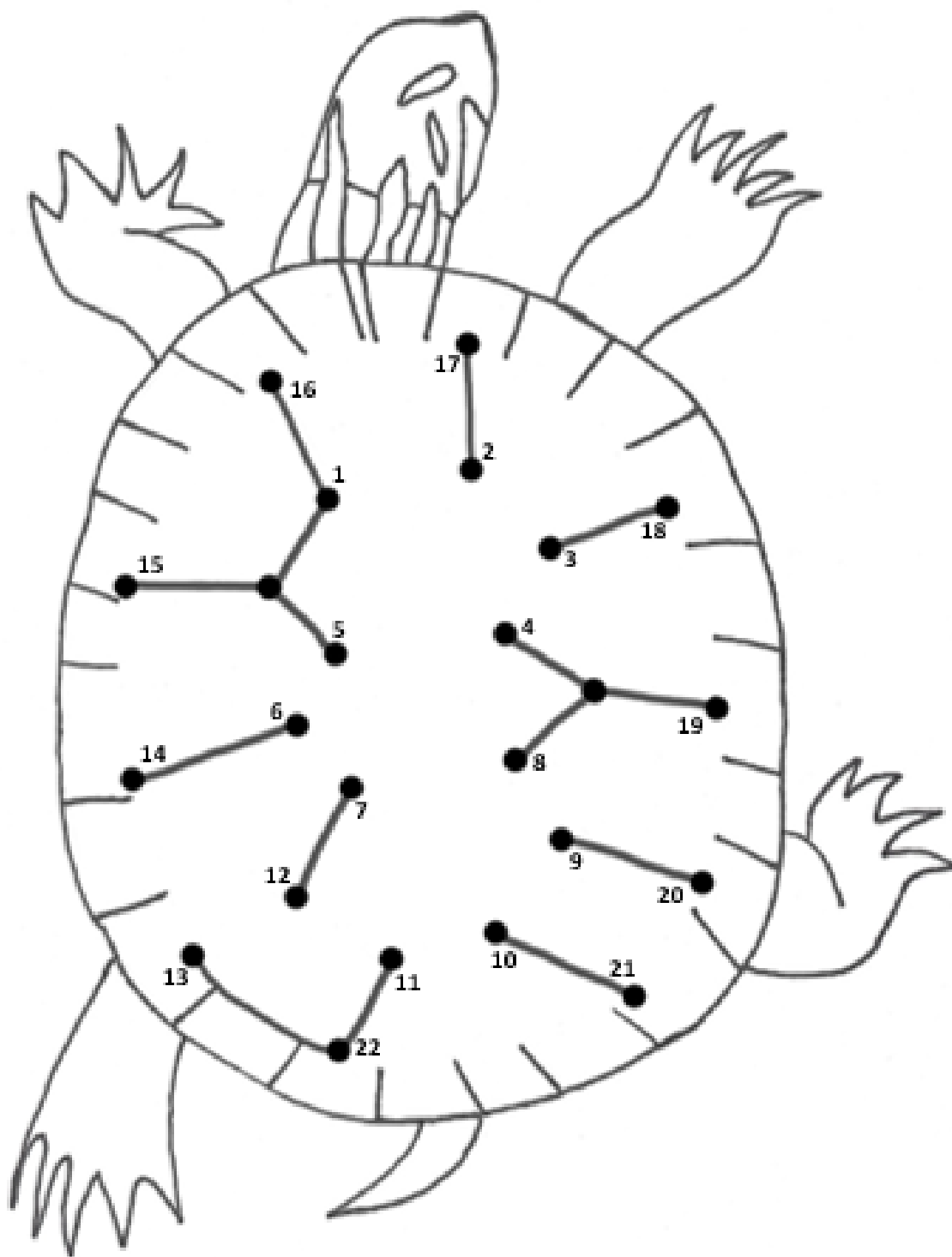
Inquiry-Based Learning	Using Structured Inquiry , the students will work independently to count and connect the dots in ascending order to complete the image. Ask the students: <ul style="list-style-type: none">• What does a turtle look like?• How many sections (or scutes) are on its shell (carapace)?• Where can you find a turtle in your community?
Turtle Stories	Take a notebook with you and visit a natural area where you might find a turtle. Try to search for a turtle and draw it. Does it look like the one you just completed in class? Students are encouraged to share their experiences, pictures, and worksheets on the Turtle Stories website, found here: https://www.turtlestories.ca/
Turtle Guardian Program Links	In Level 1 (Ontario Turtle Identification) of the Turtle Guardian Program , students will learn how to identify all 8 species of Ontario's turtles. For more information, please visit https://www.turtleguardians.com/what-is-a-turtle-guardian/

My Notes

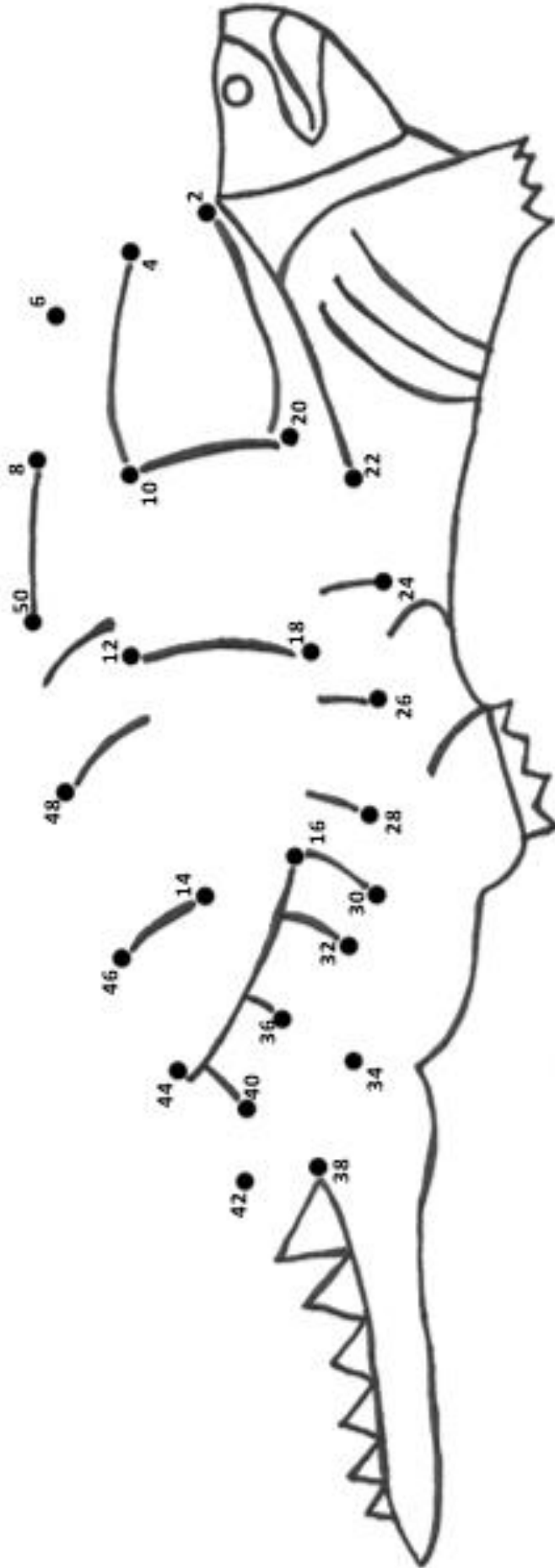


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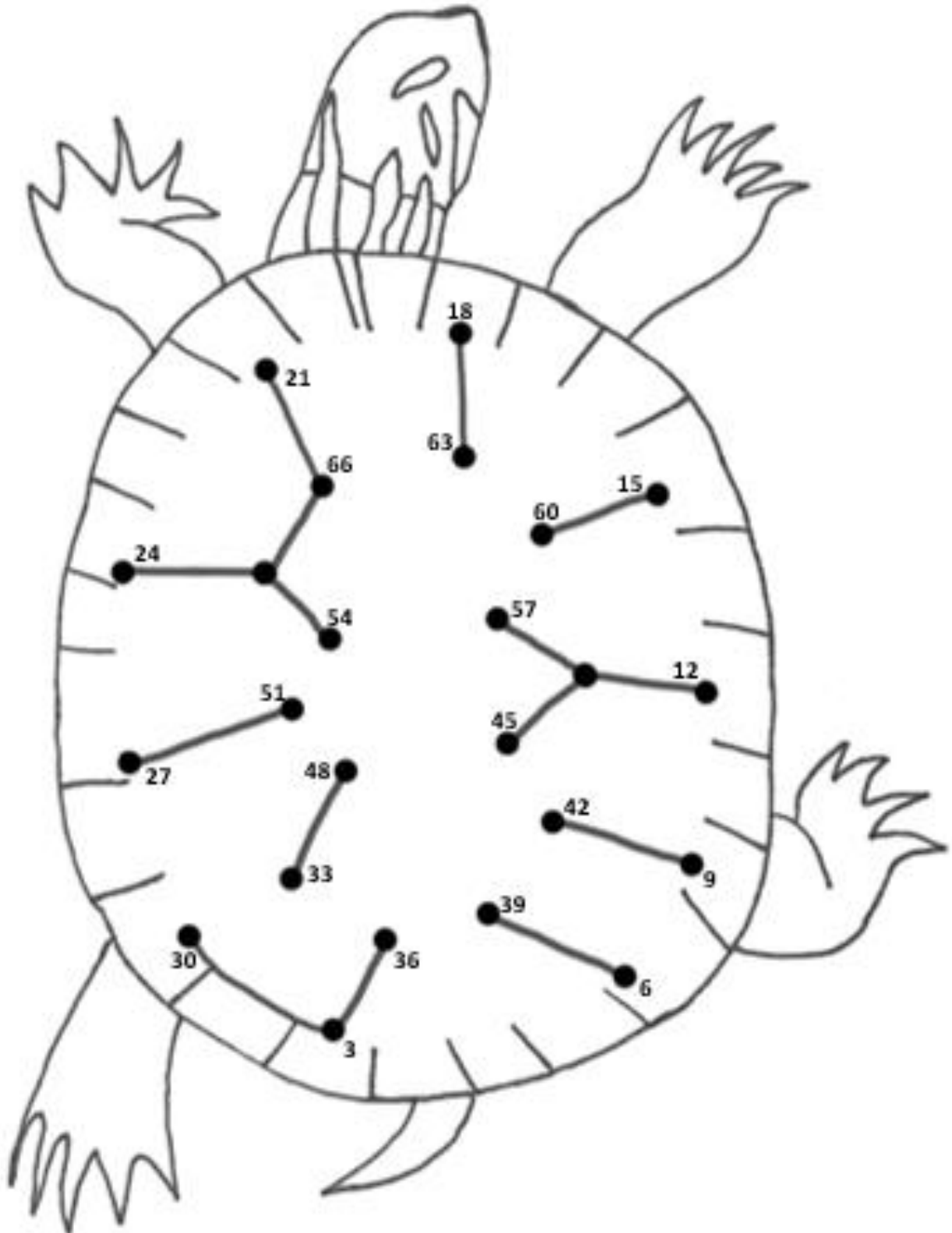
Count by 1's to connect the dots. Then colour the Painted Turtle!



Count by 2's to connect the dots. Then colour the Snapping Turtle!



Count by 3's to connect the dots. Then colour the Painted Turtle!



Count by 5's to connect the dots. Then colour the Snapping Turtle!

