

G4 Lessons at a Glance: Daily Supplies List

Note: any additional supporting documents (including model anchor charts and any printable or downloadable files) referenced in a lesson can be found in the “Supporting Files” section for that day’s lesson.

LESSON	MINI-LESSON	INQUIRY CIRCLES	SCIENCE INVESTIGATION
<p>Day 1: We Are Paleobotanists!</p>	<p>Teacher needs:</p> <ul style="list-style-type: none"> • “Inquiry Toolbox” anchor chart • “Team Roles” anchor chart 	<p>Each team needs:</p> <ul style="list-style-type: none"> • access to informational texts • access to “Plant Images for Inquiry Circles” PDF (optional) <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Plant Resources” spreadsheet for ideas • “Plant Images for Inquiry Circles” PDF (optional) 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • 4 different-colored straws (a different color for each team member) • 1 sheet of 11” x 14” copy paper • 4 ft. of masking tape • 1 premade fossil site in an aluminum pan (see Teacher Fossil-Dig Instructions in the “Before the Unit Begins” section) <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Taped Dig” image • “Paper-Folding” video clip • 1 sheet of 11” x 14” copy paper • 1 straw • 1 marker pen <p>Setup: see Day 1 lesson plan</p>
<p>Day 2: What Are Fossils?</p>	<p>Teacher needs:</p> <ul style="list-style-type: none"> • chart paper • marker(s) • “Skimming and Scanning for Specific Information” anchor chart • informational text about plants to model the strategy (see “Plant Resources” spreadsheet) 	<p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart (created by the teacher) on 11” x 17” paper • pencils • access to informational texts/ media <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Plant Resources” spreadsheet for ideas <p>Setup: see Day 2 lesson plan</p>	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil • goggles • copy of Day 2 Venn Diagram <p>Each team needs:</p> <ul style="list-style-type: none"> • 1 premade fossil site in an aluminum pan • paper grid map made in the previous class • copy of Fossil Dig Instructions, or electronic access • 1 craft stick • 1 small flat paint brushes • 1 paper plate <p>Teacher needs:</p> <ul style="list-style-type: none"> • pre-made fossil dig (1 per team) • copies of the Fossil Dig Instructions, or electronic access <p>Setup: see Day 2 lesson plan</p>

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Day 3: How Do Fossils Form?	Practice Day	Each team needs: <ul style="list-style-type: none"> team Inquiry Chart pencils access to informational texts/ media Teacher needs: <ul style="list-style-type: none"> “Plant Resources” spreadsheet for ideas 	Each team member needs: <ul style="list-style-type: none"> science notebook pencil goggles Each team needs: <ul style="list-style-type: none"> paper grid map from Day 1 paper plate with fossil pieces Teacher needs: <ul style="list-style-type: none"> “Fossils” PPT Setup: see Day 3 lesson plan
Day 4: How Have Plants Survived through Time?	Teacher needs: <ul style="list-style-type: none"> chart paper marker(s) “Evaluating Claims” anchor chart informational text or website about plants to model the strategy (suggested) 	Each team needs: <ul style="list-style-type: none"> team Inquiry Chart pencils access to informational texts/ media Teacher needs: <ul style="list-style-type: none"> “Plant Resources” spreadsheet for ideas 	Each team member needs: <ul style="list-style-type: none"> science notebook pencil copy of “Plant Structures” page Each team needs: <ul style="list-style-type: none"> access to digital “Plant Puzzler” Google Doc access to Day 4 Plant Image (or 1 live plant or plant cutting) Teacher needs: <ul style="list-style-type: none"> chart paper (or whiteboard) marker(s) “Plant Puzzler” Google Doc “Plant Structures” page Day 4 Plant Image (or live plant) Setup: see Day 4 lesson plan
Day 5: Are All Plant Leaves the Same?	Teacher needs: <ul style="list-style-type: none"> chart paper marker(s) “Making Connections across Informational Texts” anchor chart any 2 informational texts about cacti to model the strategy (see Day 5 lesson for examples) 	Each team needs: <ul style="list-style-type: none"> team Inquiry Chart pencils access to informational texts/ media Teacher needs: <ul style="list-style-type: none"> “Plant Resources” spreadsheet for ideas 	Each team member needs: <ul style="list-style-type: none"> science notebook pencil goggles gloves Each team needs: <ul style="list-style-type: none"> a bag of 8 leaves (2 leaves per learner) hand lenses “Leaf Morphology” chart (paper copy or electronic access) “Leaf Structure” diagram (paper copy or electronic access) Teacher needs: <ul style="list-style-type: none"> a sample leaf “Leaf Morphology” chart (paper copy or electronic access) “Leaf Structure” diagram (paper copy or electronic access) trays or gallon ziplock bags a collection of assorted leaves Setup: see Day 5 lesson plan

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<p>Day 6: What Were the First Land Plants?</p>	<p>Practice Day</p>	<p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • pencils • access to informational texts/ media <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Plant Resources” spreadsheet for ideas 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil • goggles • gloves <p>Each team needs:</p> <ul style="list-style-type: none"> • 1 bag containing paper copies of the Day 6 Plant Images, or electronic access to images • 1 bag containing hand lenses, goggles, gloves, rulers or measuring tapes, and a copy of the “Leaf Morphology” chart • 1 copy of the “Plant Observations” booklet • live moss specimen <p>Teacher needs:</p> <ul style="list-style-type: none"> • Day 6 Plant Images • gallon ziplock bags (2 for each team) • copy of the “Plant Observations” booklet • “Leaf Morphology” chart (copy or electronic access) • hand lenses • rulers or measuring tapes • live moss specimen <p>Setup: see Day 6 lesson plan</p>
<p>Day 7: What Are Vascular Plants?</p>	<p>Teacher needs:</p> <ul style="list-style-type: none"> • chart paper • marker(s) • “Main Idea” anchor chart • informational text about cacti to model the strategy (see lesson for suggested resource) 	<p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • pencils • access to informational texts/ media <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Plant Resources” spreadsheet for ideas 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil • goggles • gloves <p>Each team needs:</p> <ul style="list-style-type: none"> • 1 bag containing paper copies of Day 7 Plant Images (or electronic access) • 1 bag containing hand lenses, goggles, gloves, rulers or measuring tapes, and a copy of the “Leaf Morphology” chart • team “Plant Observations” booklet • live fern <p>Teacher needs:</p> <ul style="list-style-type: none"> • Day 7 Plant Images • gallon ziplock plastic bags • live fern <p>Setup: see Day 7 lesson plan</p>

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<p>Day 8: What Are Gymnosperms?</p>	<p>Teacher needs:</p> <ul style="list-style-type: none"> • chart paper • marker(s) • “Synthesizing” anchor chart 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • access to informational texts/ media <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Plant Resources” spreadsheet for ideas 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil • goggles • gloves <p>Each team needs:</p> <ul style="list-style-type: none"> • 1 bag containing pine cones and pine needles • 1 bag containing paper copies of Day 8 Plant Images (or electronic access) • 1 bag containing hand lenses, goggles, gloves, rulers or measuring tapes, and a copy of the “Leaf Morphology” chart • the team “Plant Observations” booklet <p>Teacher needs:</p> <ul style="list-style-type: none"> • Day 8 Plant Images • gallon ziplock bags • assortment of pine cones and pine needles <p>Setup: see Day 8 lesson plan</p>
<p>Day 9: What Are Angiosperms?</p>	<p>Practice Day</p>	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • access to informational texts/ media <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Plant Resources” spreadsheet for ideas 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil • goggles • gloves <p>Each team needs:</p> <ul style="list-style-type: none"> • 1 live specimen • 1 bag containing paper copies of Day 9 Plant Images (or electronic access) • 1 bag containing hand lenses, goggles, gloves, rulers or measuring tapes, and a copy of the “Leaf Morphology” chart • team “Plant Observations” booklet <p>Teacher needs:</p> <ul style="list-style-type: none"> • Day 9 Plant Images • live specimen of any angiosperm • gallon ziplock bags <p>Setup: see Day 9 lesson plan</p>

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<p>Day 10: Putting the Pieces Together</p>	<p>Teacher needs:</p> <ul style="list-style-type: none"> • chart paper • marker(s) • “Making Evidence-Based Claims” anchor chart to use as a model 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • team “Plant Observations” booklet 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team “Plant Observations” booklet • team Inquiry Chart • access to all plant specimens • access to all plant images (Days 6 – 9) <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Organizing the Data” page • chart paper • marker(s) <p>Setup: see Day 10 lesson plan</p>
<p>Day 11: It’s All about Claims!</p>	<p>Teacher needs:</p> <ul style="list-style-type: none"> • chart paper • marker(s) • “Making Evidence-Based Claims” anchor chart for modeling 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • team “Plant Observations” booklet 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • copy of Team CER Chart • team “Plant Observations” booklet • access to “Organizing the Data” charts • access to all live plant specimens • access to all plant images (Days 6–9) <p>Teacher needs:</p> <ul style="list-style-type: none"> • “Organizing the Data” charts created on Day 10 • CER chart • all live plant specimens • all plant images (Days 6–9) <p>Setup: see Day 11 lesson plan</p>
<p>Day 12: What Can Fossils Tell Us?</p>	<p>Practice Day</p>	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • team “Plant Observations” booklet 	<p>Each team member needs:</p> <ul style="list-style-type: none"> • science notebook • pencil <p>Each team needs:</p> <ul style="list-style-type: none"> • team Inquiry Chart • a copy of the Paleobotanist Log • team “Plant Observations” booklet • access to all plant specimens • access to all plant images (Days 6 – 9) <p>Teacher needs:</p> <ul style="list-style-type: none"> • Paleobotanist Log (paper copy or electronic version) • “Plant Fossils” PPT • Plant Fossils Key <p>Setup: see Day 12 lesson plan</p>

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<p>Day 13: Preparing for a Science Conference (Part 1)</p>	<p>CULMINATING ACTIVITY (PART 1)</p> <p>Each team needs:</p> <ul style="list-style-type: none"> • science notebook with all documents, notes, etc. • team Inquiry Chart • “Plant Observations” booklet • access to digital platform that supports the writing of a book • access to bags of representative plant images and fact sheets <p>Setup: see Day 13 lesson plan</p>		
<p>Day 14: Preparing for a Science Conference (Part 2)</p>	<p>CULMINATING ACTIVITY (Part 2)</p> <p>Each team needs:</p> <ul style="list-style-type: none"> • science notebook with all documents, notes, etc. • team Inquiry Chart • “Plant Observations” booklet • access to digital platform that supports the writing of a book • access to bags of representative plant images and fact sheets <p>Setup: see Day 14 lesson plan</p>		
<p>Day 15: The Science Conference!</p>	<p>The Science Conference</p> <p>Each team needs:</p> <ul style="list-style-type: none"> • digital book they have created <p>Setup: see Day 15 lesson plan</p>		