ALL for Science™
Authentic Literacy and Language for Science

Baylor College of Medicine CENTER FOR EDUCATIONAL OUTREACH

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
Day 1: We Are Paleobotanists!	**Teacher needs:** • "Inquiry Toolbox" anchor chart • "Team Roles" anchor chart	**Each team needs:** • access to informational texts • access to "Plant Images for Inquiry Circles" PDF (optional) **Teacher needs:** • "Plant Resources" spreadsheet for ideas • "Plant Images for Inquiry Circles" PDF (optional)	**Each team member needs:** • science notebook • pencil **Each team needs:** • 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) **Teacher needs:** • "Taped Dig" image • "Paper-Folding" video clip • 1 sheet of 11" x 14" copy paper • 1 straw • 1 marker pen **Setup:** see Day 1 lesson plan
Day 2: What Are Fossils?	**Teacher needs:** • chart paper • marker(s) • "Skimming and Scanning for Specific Information" anchor chart • informational text about plants to model the strategy (see "Plant Resources" spreadsheet)	**Each team needs:** • team Inquiry Chart (created by the teacher) on 11" x 17" paper • pencils • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas **Setup:** see Day 2 lesson plan	**Each team member needs:** • science notebook • pencil • goggles • copy of Day 2 Venn Diagram **Each team needs:** • 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 **Teacher needs:** • pre-made fossil dig (1 per team) • copies of the Fossil Dig Instructions, or electronic access **Setup:** see Day 2 lesson plan

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Day 3: **How Do Fossils Form?**	**Practice Day**	**Each team needs:** • team Inquiry Chart • pencils • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas	**Each team member needs:** • science notebook • pencil • goggles **Each team needs:** • paper grid map from Day 1 • paper plate with fossil pieces **Teacher needs:** • "Fossils" PPT **Setup:** see Day 3 lesson plan
Day 4: **How Have Plants Survived through Time?**	**Teacher needs:** • chart paper • marker(s) • "Evaluating Claims" anchor chart • informational text or website about plants to model the strategy (suggested)	**Each team needs:** • team Inquiry Chart • pencils • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas	**Each team member needs:** • science notebook • pencil • copy of "Plant Structures" page **Each team needs:** • access to digital "Plant Puzzler" Google Doc • access to Day 4 Plant Image (or 1 live plant or plant cutting) **Teacher needs:** • 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:** • 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:** • team Inquiry Chart • pencils • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas	**Each team member needs:** • science notebook • pencil • goggles • gloves **Each team needs** • 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:** • 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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Day 6: What Were the First Land Plants?	**Practice Day**	**Each team needs:** • team Inquiry Chart • pencils • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas	**Each team member needs:** • science notebook • pencil • goggles • gloves **Each team needs:** • 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 **Teacher needs:** • 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 **Setup:** see Day 6 lesson plan
Day 7: What Are Vascular Plants?	**Teacher needs:** • chart paper • marker(s) • "Main Idea" anchor chart • informational text about cacti to model the strategy (see lesson for suggested resource)	**Each team needs:** • team Inquiry Chart • pencils • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas	**Each team member needs:** • science notebook • pencil • goggles • gloves **Each team needs:** • 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 **Teacher needs:** • Day 7 Plant Images • gallon ziplock plastic bags • live fern **Setup:** see Day 7 lesson plan

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Day 8: What Are Gymnosperms?	**Teacher needs:** • chart paper • marker(s) • "Synthesizing" anchor chart	**Each team member needs:** • science notebook • pencil **Each team needs:** • team Inquiry Chart • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas	**Each team member needs:** • science notebook • pencil • goggles • gloves **Each team needs:** • 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 **Teacher needs:** • Day 8 Plant Images • gallon ziplock bags • assortment of pine cones and pine needles **Setup:** see Day 8 lesson plan
Day 9: What Are Angiosperms?	**Practice Day**	**Each team member needs:** • science notebook • pencil **Each team needs:** • team Inquiry Chart • access to informational texts/ media **Teacher needs:** • "Plant Resources" spreadsheet for ideas	**Each team member needs:** • science notebook • pencil • goggles • gloves **Each team needs:** • 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 **Teacher needs:** • Day 9 Plant Images • live specimen of any angiosperm • gallon ziplock bags **Setup:** see Day 9 lesson plan

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Day 10: Putting the Pieces Together	**Teacher needs:** • chart paper • marker(s) • "Making Evidence-Based Claims" anchor chart to use as a model	**Each team member needs:** • science notebook • pencil **Each team needs:** • team Inquiry Chart • team "Plant Observations" booklet	**Each team member needs:** • science notebook • pencil **Each team needs:** • team "Plant Observations" booklet • team Inquiry Chart • access to all plant specimens • access to all plant images (Days 6 – 9) **Teacher needs:** • "Organizing the Data" page • chart paper • marker(s) **Setup:** see Day 10 lesson plan
Day 11: It's All about Claims!	**Teacher needs:** • chart paper • marker(s) • "Making Evidence-Based Claims" anchor chart for modeling	**Each team member needs:** • science notebook • pencil **Each team needs:** • team Inquiry Chart • team "Plant Observations" booklet	**Each team member needs:** • science notebook • pencil **Each team needs:** • 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) **Teacher needs:** • "Organizing the Data" charts created on Day 10 • CER chart • all live plant specimens • all plant images (Days 6–9) **Setup:** see Day 11 lesson plan
Day 12: What Can Fossils Tell Us?	**Practice Day**	**Each team member needs:** • science notebook • pencil **Each team needs:** • team Inquiry Chart • team "Plant Observations" booklet	**Each team member needs:** • science notebook • pencil **Each team needs:** • 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) **Teacher needs:** • Paleobotanist Log (paper copy or electronic version) • "Plant Fossils" PPT • Plant Fossils Key **Setup:** see Day 12 lesson plan

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Day 13: Preparing for a Science Conference (Part 1)	**CULMINATING ACTIVITY (PART 1)** **Each team needs:** • 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 **Setup:** see Day 13 lesson plan		
Day 14: Preparing for a Science Conference (Part 2)	**CULMINATING ACTIVITY (Part 2)** **Each team needs:** • 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 **Setup:** see Day 14 lesson plan		
Day 15: The Science Conference!	**The Science Conference** **Each team needs:** • digital book they have created **Setup:** see Day 15 lesson plan		