

Acquisition Lesson Plan

Name	Teacher/Planner	Subject	Sundials and the Earth's Rotation	Date	NOTE: SUNNY DAY needed.
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9:30 Supervisor checks in students and takes attendance. Puts names in "Random Drawing" bucket for prizes later in week.

9:30 – 9:45 Breakfast Snack

Essential Question: How and why does a sundial work?

9:45 – 10:00 Activating Strategy/Arrival Activity:

Children can choose between two coloring sheets (one for younger kids, the other for older), have colored pencils, crayons, markers available.

10:00 – 11:00 Teaching Strategies:

Share by reading aloud: *How the Sun Got to Coco's House (Bob Graham)*

Discuss: What is this book really about? Because the Earth rotates around the sun, it's daytime in one place and nighttime in another, when the sun is on the other side of the earth.

Ask: How did people tell time before there was technology?

Activity: Make sundial (see instructions, attached)

Formative Assessments: (ongoing) Classroom helpers sit near children during reading aloud or partner reading to help them attend to story. Adults monitor and help guide kids with activities, asking questions to make sure they understand.

11:00 – Summarizing: Could you take your sundial home and make it work? (Suggest they do this, and reiterate how to set it up.)

11:15 Bathroom break and hand washing

Wash hands and enjoy lunch together. Teachers and adult leaders model appropriate table manners and encourage children to taste foods. Children and adults throw their own trash away.

11:50 - After lunch, prior to dismissal:

Culminating Activity: Invite children to choose a used book to take home and encourage them to do some reading tonight before they go to sleep.

Remind them about setting up their sundial at home. They might also complete their coloring page, begun at arrival.

Supplies needed for activity:

“Sundial Clock Face” handout (1 per child)

Paper plate at least 9-inches wide (1 per child)

Straw (1 per child, if it’s bendy, cut off the bendy part so you have just a straight straw.)

Small amount of playdough per child, to attach straw

Glue sticks

Scissors

1. Pass out materials.
2. Have kids cut out the clock face - straight across just below the bottom line (from West to East) and then a semi-circle that includes North.
3. Glue the semicircle to the bottom of a paper plate, trying to get the circle in the CENTER of the plate bottom.
4. Put a small circle of playdough on the center dot, stick the straw into it so that it stands firmly and straight.
5. Take the sundials outside. Notating the actual time, have the kids place their sundials so that the shadow of the straw shows the correct time.
6. Explain to them that they can now tell which way is north, south, east, or west. If their sundial were to stay in this place, as long as it’s sunny, you’d always be able to tell the approximate time.