

WEEK 1 Lesson 1

Science and Engineering: What Does a Scientist Do?

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| S & E Big Idea | Children can behave as scientists to find out about our world. |
| S & E Guiding Question | What does a scientist do? |
| Content Objective | I can ask a question that can be answered by doing a science investigation. (Practice 1) |
| Language Objective | I can ask a question about what I notice to get more information. (SL.1.1c) |
| Vocabulary | observation: noticing or watching something very carefully to gain information scientist: a person who studies physical, earth, or life sciences |
| Materials and Preparation | <ul style="list-style-type: none"> ● <i>Ada Twist, Scientist</i>, Andrea Beaty ● Types of Scientists Vocabulary cards (slides), one set ● Matching Game cards, one set per pair/small group <p>On the whiteboard, write: What does a scientist do?</p> |
| Opening 5 minutes | <p><i>This is our first Science and Engineering lesson! We will begin by thinking about what a scientist is and what scientists do. Then, we'll meet a scientist in a book!</i></p> <p><i>First, close your eyes and imagine someone who is a scientist. What does that person look like? What is that person wearing? What is that person doing?</i></p> <p>Allow thinking time. Invite a few children to share their images of scientists. Note similarities and differences in children's ideas about who a scientist is and what a scientist does.</p> |
| Text 14 minutes | Read the book <i>Ada Twist, Scientist</i> , pausing minimally to define vocabulary. Highlight moments when the character asks questions. |

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| <p>Discussion 10 minutes</p> | <p><i>What does Ada Twist do in this story?</i> [Ada asks a question about a terrible smell; this began an investigation to find its source. Throughout the investigation, including her time in the thinking chair, she records her ideas; her parents offer her a large piece of graph paper for this purpose.]</p> <p><i>Ada is a child AND she's a scientist! This year, we will spend a lot of time thinking, acting, and communicating as scientists- doing the same things Ada Twist does.</i></p> <p><i>Today we will learn about different kinds of scientists. Did you know that there are many kinds of scientists you could be?</i></p> <p>Post the vocabulary cards and the matching pictures. Post these for the children to see.</p> <ul style="list-style-type: none"> ● Meteorologist: Weather ● Chemist: Atoms and Test Tubes ● Astronomer: Planets and Stars ● Microbiologist: Microscope ● Marine biologist: Sea Life ● Geologist: Rocks ● Botanist: Plants <p>Have children play the scientist matching game by matching the name of the scientist to the picture of what they study. Circulate through the groups to help the children identify the names.</p> |
| <p>Closing 1 minute</p> | <p><i>All through first grade, you'll be asking questions about things you notice and investigating some of those questions, just like Ada Twist does! We will also practice being meteorologists, biologists, and botanists.</i></p> |
| <p>Standards</p> | <p>Practice 1: Asking questions and defining problems S.L.1.1c: Ask questions to clear up any confusion about the topics and texts under discussion.</p> |
| <p>Ongoing assessment</p> | <p>During the conversation and in reviewing questions recorded in the teacher's journal, notice what kind of questions children ask and what topics interest them.</p> |

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| <p>Notes</p> |
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Meteorologist

**Marine
Biologist**

Geologist

Astronomer

Microbiologist

Chemist

Botanist



