

Core Knowledge Digital Engagements, Science

Grade 1, Physical Science, Engagement 4

For the Teacher

Overview of Grade 1, Physical Science, Engagement 4

In this whole-class, teacher-facilitated activity, students answer questions to uncover the parts of a robot scattered around a shop and assemble the complete robot.

What You Need

- The means to project this interactive for whole-class viewing
- Grade 1 Core Knowledge Science Student Readers, *Simple Machines* (Students should be allowed to use the book to seek answers. Looking up information on demand is a valuable skill to practice!)

Advance Preparation

- Plan a way to keep track of which students have already answered and which students are still eligible for a turn. Collectively, the screens include thirty questions, so each student in class should get at least one turn.
- **Download these instructions.** The download will include your **Answer Key**.

How to Facilitate

- Beginning with the screen following this one, project the engagement in the largest format possible for whole-class viewing.
- Clicking on most text on the screen activates voice audio of the text. Or you may choose to do the reading aloud for students.
- Go over expectations with students before beginning.
- Call on students to participate one at a time.
- Have each student navigate as you click on questions. If the answer is incorrect, the robot piece will not be revealed. You can choose to move on to another student or allow students to make multiple attempts for incorrect answers.
- If you have more questions than students, after all students have had a turn to answer a question, allow volunteers to have a second turn. Or complete the remaining questions as a group.

(continued)

Answer Key

1. true
2. B. lever
3. D. It makes it easier to lift or move things.
4. C. fulcrum
5. B. arms
6. A. The opposite arm moves up.
7. C. balance
8. true
9. C. wedge
- 10.B. It pushes the wood apart with less effort.
11. C. knife
- 12.C. the pointy narrow tip
- 13.A. a wedge wrapped around a cylinder
14. B. It pulls the screw deeper while pushing the wood apart.
- 15.D. a machine made from two or more simple machines
- 16.B. lever and wedge
- 17.A. two levers and a wedge for cutting
- 18.C. wedge and wheel and axle
- 19A. It pulls water up by turning a crank.
- 20C. a block and tackle
- 21A. wheelbarrow
- 22C. pliers
- 23B. bicycle
- 24C. wheel and axle and wedge