

POP! TEACHER RESOURCE

Lesson Plan

Sentence Sort

Lesson Plan for *3-D Printers*

Grade 1

Objective

To help students practice describing the sequence of events in a process.

Things Needed

- *3-D Printers* book
- Sentence Sort activity (attached)

Before the Activity

Divide students into groups of three or four. Print a copy of the Sentence Sort activity for each group. Cut the sentences apart so each one is on a separate slip of paper. Then mix up the order of the sentences in each set.

Activity

Read Chapter 2 (“How It Works”) of *3-D Printers* out loud to students. Then give each group of students one of the Sentence Sort sets. Explain that the sentences describe the process used by 3-D printers, but they are all out of order. Students in each group should work together to put the sentences in the correct order, placing the sentence that happened first at the top and each successive sentence below until the last sentence is at the bottom. The order should look like this:

1. A person uses a computer program to make a design.
2. The design is sent to a 3-D printer.
3. A heater inside the 3-D printer melts the plastic.
4. The plastic is squeezed out of the 3-D printer’s nozzle.
5. The 3-D printer uses the plastic to build the first layer of the object.
6. Computer programs tell the 3-D printer how to make the other layers of the object.
7. After many layers of plastic build up, the object is finished.



Go around to each group and check their order, providing prompting and support until every group has the correct order. Then ask the following questions:

- Does the heater inside the printer melt the plastic before or after the printer builds the first layer? (Answer: Before)
- Is plastic squeezed out of the printer's nozzle before or after the design is sent to the printer? (Answer: After)

Evaluation

Could each group of students arrange the sentences in the correct order? Could they answer the questions about which steps happened first?

Standards

This lesson plan may be used to address the Common Core State Standards' reading standards for informational texts, grade 1 (RI 1.3).



Sentence Sort

A person uses a computer program to make a design.

The design is sent to a 3-D printer.

A heater inside the 3-D printer melts the plastic.

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The 3-D printer uses the plastic to build the first layer of the object.

Computer programs tell the 3-D printer how to make the other layers of the object.

After many layers of plastic build up, the object is finished.

