

# Instructional Scenario

## Construct an ANFR Project



Course/Duty Area: Agriscience & Technology/Understanding Agricultural Mechanics

### Scenario:

Timmy is a middle school student learning the basics of carpentry. He is trying to interpret a simple scale drawing and transcribe the measurements onto a piece of lumber. He also needs to select the tools he needs to complete this task.

### Big Question:

Why is it important to understand and interpret scale drawings for a project?

### Focused Questions:

- What is a *scale drawing*?
- What measuring tools are needed for scale drawings?
- How can half of a measurement be found?

### Student Project or Outcome:

Students draw a simple plan on a sheet of paper that will be scaled to fit on a 12-inch x 4-inch board.

### Project-Based Assessment:

Students will be assessed on their ability to measure accurately and the precision of their drawings on both the paper and the piece of lumber.

*Scenario submitted by Brandon Strosnider, Wilson Middle School, Augusta County Public Schools*