

Creating Measurable Lesson Objectives Information

How to create measurable learning objectives via the SMART criteria:

Specific, Measurable, Achievable, Relevant, and Time-bound.

Specific (S): Be clear and precise about what you want students to learn. Avoid vague or broad objectives.

Measurable (M): Your objective should include a clear way to measure whether students have achieved it. This often involves using quantifiable terms or criteria.

Achievable (A): Ensure that the objective is attainable given the students' current knowledge and abilities. It should challenge them but not be too difficult.

Relevant (R): The objective should align with the overall goals and curriculum of the course or subject matter.

Time-bound (T): Set a time frame for when the objective should be achieved. This could be within one lesson, a week, or a specific time period.

Step-by-step guide to creating a measurable lesson objective:

Step 1: Identify the Content or Skill Determine what specific content or skill you want students to learn during the lesson. This should relate to the broader goals of the course or curriculum.

Step 2: Use Action Verbs Choose a strong action verb that describes the desired behavior or outcome. Action verbs make objectives more measurable. Common verbs for objectives include "calculate," "demonstrate," "analyze," "compare," "construct," "solve," and so on.

Step 3: Include the Conditions Specify any conditions or constraints under which students will demonstrate the desired behavior or skill. This can provide context and clarify the objective. For example, "Given a set of data," or "Using a map."

Step 4: Describe the Criteria Define the criteria or standards by which you will measure student success. What will indicate that they have achieved the objective? This should be specific and measurable. For example, "with at least 90% accuracy" or "in under 20 minutes."

Step 5: Make It Time-Bound Set a timeframe for when students should achieve the objective. This could be by the end of the lesson, by the next class, or within a specific time frame.

Examples

Carpentry By the end of this 60-minute carpentry lesson, students will be able to accurately measure, cut, and safely assemble a wooden frame using common lumber sizes, with joints aligned within 1/16th of an inch, while following all safety guidelines.

In this example:

- **Specific:** The objective focuses on the specific skills of measuring, cutting, and safely assembling a wooden frame.
- **Measurable:** Student success is measured by the accuracy of measurements and assembly, with specific criteria (joints aligned within 1/16th of an inch) and adherence to safety guidelines.
- **Achievable:** Achieving these carpentry skills is attainable within the scope of a high school CTE carpentry lesson.
- **Relevant:** The objective aligns with the core skills taught in a carpentry CTE program.
- **Time-bound:** The objective should be achieved within the 60-minute lesson.

This measurable lesson objective provides a clear target for both the instructor and students, facilitating effective instruction and assessment in the context of a CTE carpentry lesson.

Culinary Arts By the end of this 90-minute cooking lesson, high school students will be able to demonstrate proficiency in egg cookery skills by successfully preparing three types of eggs: fried, over easy/medium, and scrambled, with the following criteria:

- **Fried Eggs:** Students will cook two fried eggs to over easy or over medium doneness, with fully set whites and runny yolks, without any broken yolks.
- **Over Easy/Medium Eggs:** Students will cook two over easy or over medium eggs with yolks that are partially set but still runny, without any broken yolks.
- **Scrambled Eggs:** Students will prepare a serving of scrambled eggs with a tender texture, incorporating uniform seasoning and no visible signs of overcooking or undercooking.

These eggs should be prepared using proper temperature control, safe handling practices, and suitable kitchen equipment, while following food safety and hygiene guidelines.

In this example:

- **Specific:** The objective focuses on the specific egg cookery skills, including fried, over easy/medium, and scrambled eggs.
- **Measurable:** Student success is measured by their ability to prepare the specified types of eggs according to specific criteria (such as doneness and appearance) while adhering to food safety and cooking standards.
- **Achievable:** Proficiency in these egg cookery skills is attainable for high school students within the given lesson duration.
- **Relevant:** The objective aligns with the cooking and culinary skills taught in a high school culinary arts or home economics program.
- **Time-bound:** The objective should be achieved within the 90-minute cooking lesson.