

## **Data Analysis and Probability**

**Goal: The learner will understand and determine probabilities.**

**Objective:**

**4.05 Determine and compare experimental and theoretical probabilities for independent and dependent events.**

To achieve this objective, students should:

- Understand that two events are independent if they do not influence each other.
- Understand that if two events are not independent they are dependent.
- Understand that combinations of independent events from a simple probability situation can be combined to create a compound probability situation. For example, rolling a die OR tossing a coin are both simple probability situations that have a set of independent events in the sample space. Rolling a die AND tossing a coin would be a compound probability experiment, as would tossing two coins.