

DODGE CITY MIDDLE SCHOOL

Student Centered Classrooms

Generating and Testing Hypotheses

Target Instructional Goal 50%

Generating and Testing Hypotheses

Enhance students' understanding of and ability to use knowledge by engaging them in mental processes that involve making and testing hypotheses.

Generalizations From Research

1. Hypotheses generation and testing can be approached in either a deductive or inductive manner.
2. Teachers should ask students to clearly explain their hypotheses and their conclusions.

Example Activities

- Systems Analysis
- Problem-Solving and Project-Based Learning
- Historical Investigation
- Invention
- Decision-Making

Recommendations & Ideas

1. Make sure students can explain their hypotheses and conclusions
2. Use a variety of structured tasks to guide students through generating and testing hypotheses
3. Plan time for students to increase their conceptual understanding of skills or processes

