

West Des Moines Community Schools

Science Process Skills

A primary focus of the West Des Moines Community Schools elementary science program is developing science process skills. Listed below are these science skills categorized into four domains.

Organizing Information

Measuring	Classifying/Categorizing
Collecting Data	Sequencing/Ordering
Recording	Concept Mapping
Describing	Making and Using Tables
Organizing	Making and Using Graphs

Thinking Critically

Interpreting Data	Recognizing Cause and Effect
Inferring	Recognizing Relationships
Comparing and Contrasting	Forming Operational Definitions
Predicting	
Communicating (Speaking, Writing, Reading, Listening)	

Practicing Scientific Processes

Observing	Identifying Variables
Investigating	Separating & Controlling Variables
Forming a Hypothesis	Drawing Conclusions
Designing an Experiment to Test a Hypothesis	

Representing and Applying Data

- Interpreting Scientific Illustrations
- Making/Using Models
- Applying Information/Skills to New Situations
- Sampling and Estimating
- Researching