

Comparison of Arizona's Science Standard to the Science and Engineering Practices

| Arizona Science Standard Strand 1: Inquiry | A Framework for K-12 Science Education |
|---|---|
| Observations, Questions, and Hypotheses Formulate predictions, questions, or hypotheses based on observations. Locate appropriate resources. | <ul style="list-style-type: none"> • Asking questions and defining problems • Obtaining... information |
| Scientific Testing (Investigating and Modeling) Design and conduct investigations. | <ul style="list-style-type: none"> • Developing and using models • Planning and carrying out investigations • Designing solutions • Obtaining... information |
| Analysis and Conclusions Analyze and interpret data to explain correlations and results; formulate new questions. | <ul style="list-style-type: none"> • Analyzing and interpreting data • Using mathematics and computational thinking • Constructing explanations and designing solutions • ...Evaluating and communicating information |
| Communication Communicate results of investigations. | <ul style="list-style-type: none"> • Constructing explanations and designing solutions • Engaging in argument from evidence • ...Communicating information |

This chart shows how concepts in Strand 1 of [Arizona's Science Standard](#) and the eight Science and Engineering Practices from the [Framework](#) complement and can be taught in conjunction with each other. While the descriptions of Arizona concepts are broad, the *Framework* provides additional specificity; both are intended to show what students should be doing when engaged in learning science.