

Presentation Notes

Presentation Process of Science

Lesson 3.2

Notes from Presentation:

Exploring Science

- Scientists ask questions and solve problems to understand the world around them better.
- This is referred to as scientific inquiry
- There are many processes used in inquiry

Basic Processes

- Observing

-Looking for characteristics, similarities and identifying features of objects

-Using the five senses to discover information

1. Sight
2. Touch
3. Hearing
4. Smell
5. Taste

- Predicting

-Developing an assumption of the expected outcome

-Extension: form a hypothesis, If... Then...

- Classifying

-Grouping and ordering objects

-Sorting by similar characteristics

-Dichotomous key - a method for determining the identity of something by going through a series of choices that leads the user to the correct name of the item.

1. Each step involves making a choice between two characteristics
2. Each statement should lead to the next step to narrow the selection
3. Each step will either identify the item or direct you where to go next

- Measuring

-Comparing unknown quantities to a standard of reference

1. Length
2. Mass
3. Temperature
4. Volume

- Communicating

-Sharing findings and results

1. Graphs
2. Charts
3. Reports
4. Presentations

- Experimenting

-Following clear procedures

1. Verifiable
2. Repeatable

-Provides data

1. Qualitative- descriptions, observed, but not measured
2. Quantitative- uses numbers, measured

- Inferring
 - Forming ideas to explain observations
 - Analyzing the results to form conclusions

AFNR Reflection Page

List five key points that are important to remember from this presentation.

1. Sight
2. Touch
3. Hearing
4. Smell
5. Taste

List three ideas or concepts that this new information has in common with previous things learned.

1. Sharing your results and observations can help others
2. Looking for characteristics, similarities and identifying features of objects while observing
3. Comparing unknown quantities to a standard of reference is measuring

List questions or ideas that remain unclear about the information presented that should be asked for clarity at the appropriate time. NA