



Inquiry and Scientific Values

Effective teaching is consistent with the nature of inquiry.

- Starts with questions about nature
- Engages students actively
- Concentrates on collection and use of evidence
- Provides historical perspectives
- Insists on clear expression
- Uses a team approach
- Does not separate knowing from finding out
- De-emphasizes memorizing technical vocabulary

Effective teaching reflects scientific values.

- Welcomes curiosity
- Encourages questioning:
 - How do we know?
 - What is the evidence?
 - Are there alternative explanations?
- Avoids dogmatism
- Rewards creativity