Prioritize, Synthesize

Writing Scientific Lab Reports
Purpose

• “Distill” information into a “thoughtful report”

• What does that mean?
Distill
Thoughtful
Prioritize?

• What does this mean?

• Evaluate and Decide

• Appropriate Emphasis
Synthesize

• What does this mean?

• Recognize and Explain Connections

• Create New Information from the Old
Practice

- “Distill” a “thoughtful” report on the following information
• Third Law of Motion: for every action, there is an equal but opposite reaction.
• Newton also wrote extensively about religion and biblical interpretation.
• This law works well in classical mechanics but not in special situations, such as special relativity, general relativity, or strong gravity.
• The First and Second Laws of Motion complete Newton’s theory of mechanics.
• It was published in “Mathematical Principles of Natural Philosophy” by Isaac Newton in 1687.
Example

• In 1687, Isaac Newton published “Mathematical Principles of Natural Philosophy” in which he explained three laws of motion. The Third Law – for every action, there is an opposite but equal reaction – fails in special relativity, general relativity, and strong gravity.
Step-by-Step

- Research
- Prioritize
- Synthesize
- Plan, Write, Revise
Prioritize, Synthesize

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