**Questions Scientists Ask When Reading**

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**Before Reading**

* Who is the author and why do I believe the author is qualified to write on this topic or issue?
* What scientific expertise does the author have?
* What new information will I gain from the author’s research?

**During Reading**

* What explicit message is the author trying to present?
* What scientific questions are raised by this text?
* What consequences of implementing the research were conveyed to the reader?
* How do the form and features of the text enhance or detract from your understanding of the text?
* How does the author assure the reader of his or her commitment to the topic or issue?
* How does the reader know the author is ethical?

**After Reading**

* What areas of scientific research form the backdrop of this text?
* What research on the topic did the author present to support his or her work?
* Can I determine if the research mentioned in the text is the original work?
* Is there research from other labs or institutions on the same topic?
* What conclusions has the author drawn from research and knowledge on the topic supported by other researchers, projects, or organizations?
* What articles by the same author should be investigated to verify the author’s credentials?
* What articles can be found that criticize or are unsupportive of this text?
* How does the author of this text identify his or her bias on the topic?
* What group or person is funding the primary research?
* Does the author have a commercial interest in the sale or development of this research?
* What connections does the research have to other fields of study?
* What scientific question or dilemma should be explored further?
* How is the answer to this scientific question likely to impact my life or the lives of others?
* How might the resolution of this scientific dilemma impact my life or the lives of others?
* How can I apply this research to support my current thinking on this topic or issue?
* How might the author present the text in a different medium?