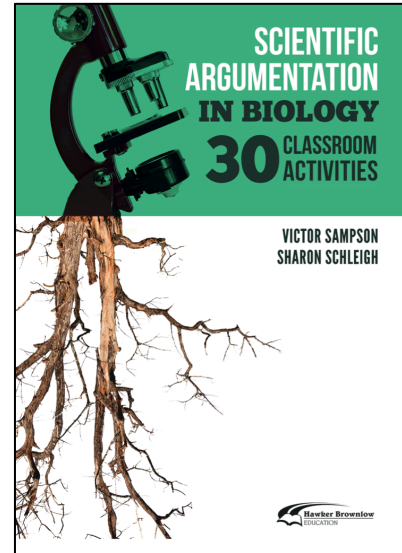


# Scientific Argumentation in Biology: 30 Classroom Activities

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## Summary

Develop your secondary school students' understanding of argumentation and evidence-based reasoning with this comprehensive book. Like three guides in one, *Scientific Argumentation in Biology* combines theory, practice and biology content.

It starts by giving you solid background in why students need to be able to go beyond expressing mere opinions when making research-related biology claims. Then it provides 30 thoroughly field-tested activities your students can use when learning to

- propose, support and evaluate claims
- validate or refute them on the basis of scientific reasoning
- craft complex written arguments.

Detailed teacher notes suggest specific ways in which you can use the activities to enrich and supplement (not replace) what you're doing in biology class already.

*Scientific Argumentation* is an invaluable resource for learning more about argumentation and designing related lessons. You'll find it ideal for helping your students learn standards-based content; improve their biological practices; explain, interpret and evaluate evidence; and acquire the habits of mind to become more proficient in science.

## Other Resources

- *Teaching Argumentation: Activities and Games for the Classroom* (MRL3998)
- *Teaching High School Science Through Inquiry and Argumentation, Second Edition* (CO7533)
- *It's Debatable! Using Socioscientific Issues to Develop Scientific Literacy, K–12* (NST9266)
- *Clones, Cats, and Chemicals: Thinking Scientifically About Controversial Issues* (NST0812)
- *The Everyday Science Sourcebook, Revised 2<sup>nd</sup> Edition: Ideas for Teaching in the Primary and Middle Years* (NST0980)