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Please enjoy this complimentary excerpt from *Answers to Your Biggest Questions About Teaching Secondary Science*.

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 **Tip 2** *Have students plan and conduct investigations into questions without knowing the answer before they start*

In this way they can experience wonder and joy about figuring out how things work. Sharing their models and explanations and arguing about them aid in the endeavor of making science fun and exciting.

## HOW CAN WE SHOW STUDENTS THE BEAUTY OF NATURE?

Taking students outside can help them see the wonder and beauty in nature. They can observe and ask questions about how birds fly and learn about small organisms that live in the soil. Making sense of how organisms transform energy and cycle matter shows them how biology, chemistry, and physics are interwoven in the real world. A sense of beauty emerges about how things in our world, both very large and very small, work together and connect. Science is everywhere, and being outside makes that real to students. They can be instilled with a sense of awe and wonder at how things in the world work together.

*I feel wonder when I am out in nature. My seventh-grade science teacher instilled this sense of wonder in me when he took me outside during class and on field trips. I became fascinated with how our natural world works and spent my 34-year career as a wildlife biologist helping to figure out the population ecology of many fur-bearing animals.*

—WILDLIFE BIOLOGIST

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