

Why Novel Studies in the Science Classroom?

Here at Nitty Gritty Science we want to foster the love of reading and improve science literacy. We believe that using novel studies in the science classroom will not only give students exposure to different perspectives but will also help them develop an understanding of how science vocabulary applies to so many events in their lives.

Research also shares benefits of using novel studies in the science classroom such as:

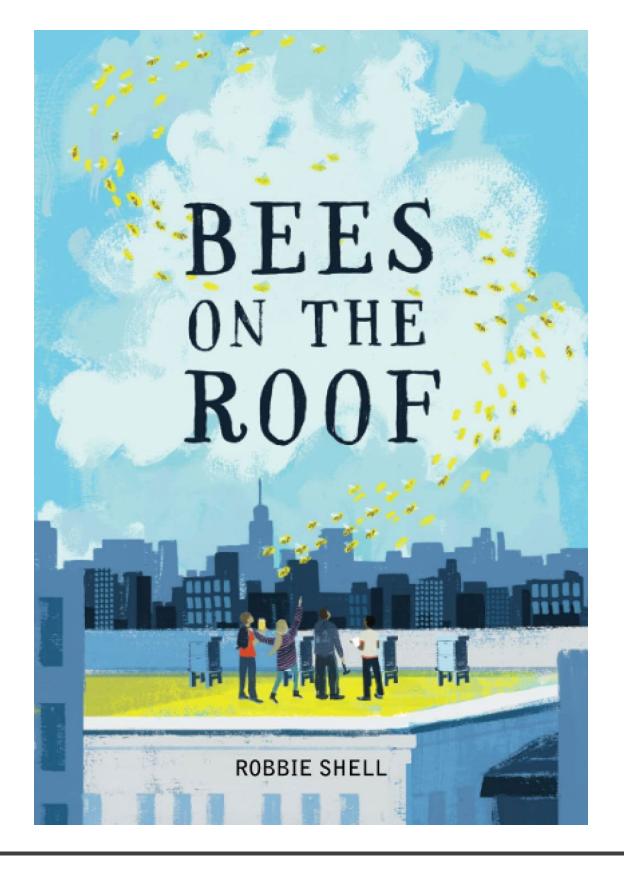
The literacy from reading can easily come from non-fiction and fiction novels that surround a science-related topic and are far more of a high-interest read for the majority of students than reading a textbook (Anderson & Hite, 2010; Batchelor, 2017; Coiro, 2012; Freudenrich, 2000).

Science fiction novels are an excellent way to engage students in science ideas while also helping students improve their literacy skills. (Creech and Hale, 2006)

Teachers can add in other readings from the internet and news articles which brings the reading level down to a more manageable level, however students are more willing to learn and spend the time to learn new vocabulary when highly engaged in what they are reading (Weinbugh et al., 2014).

There is very little research out there about the usefulness of using novels in classrooms other than ELA. Others have used novels and other types of formats to get students excited about science and science concepts (Batchelor, 2017; Coiro, 2012; Freudenrich, 2000; Ivey & Fisher, 2005; Jarman & McClune, 2001), but very few have used novels to teach science concepts and also try to increase literacy skills among students in the secondary classroom, so Nitty Gritty Science is here to help with that!

Happy reading, Erica



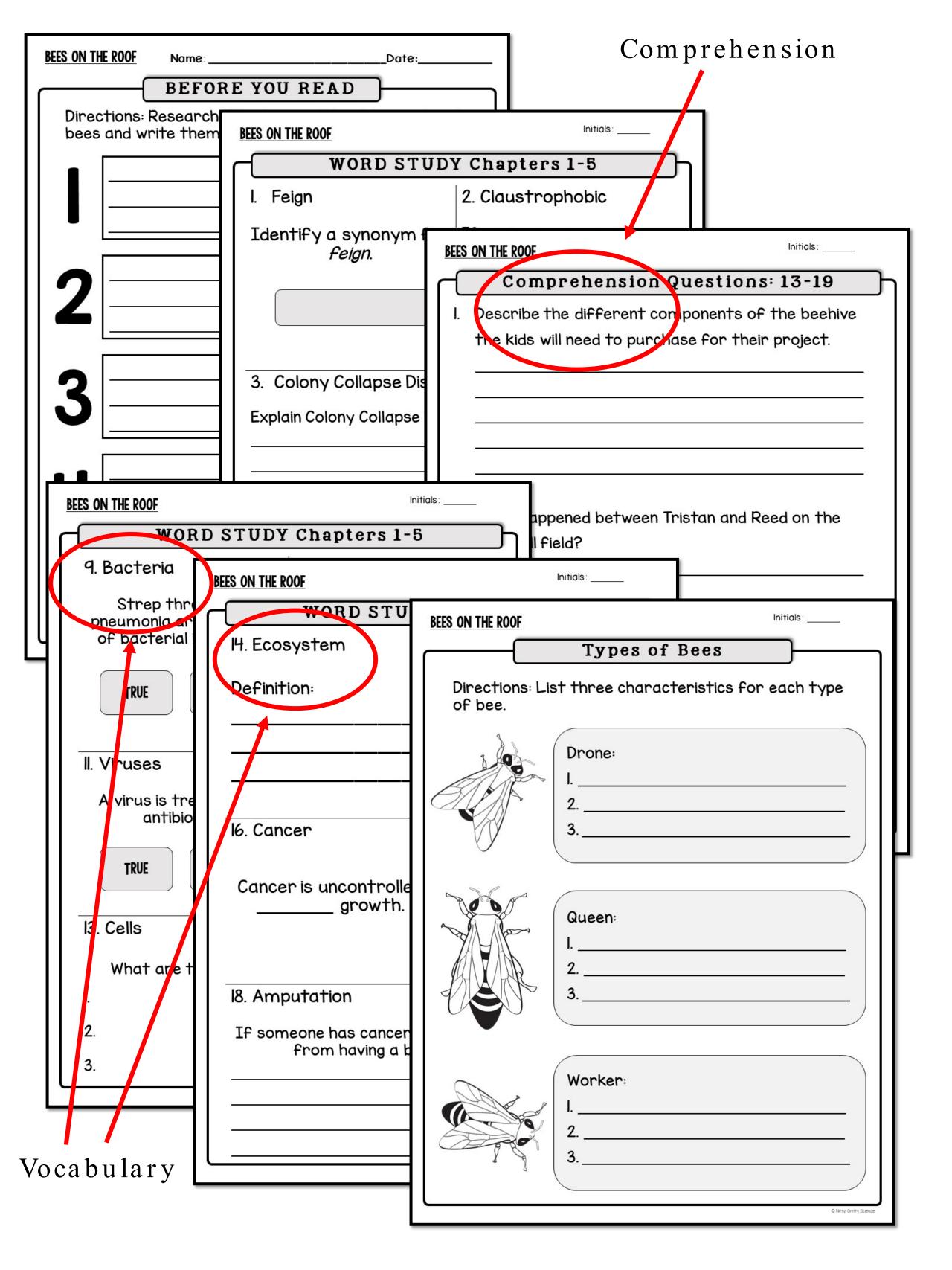
The *Bees On The Roof* novel study follows the story of Sam, who needs to find a seventh-grade science fair project and a way to save the restaurant where his father works. When he enrolls three friends in an effort to raise bees on a hotel roof in New York City, the complications multiply. Bee sting allergies, a great bee die-off, a rival team's cheating, a mysteriously reclusive science teacher, and Sam's romantic feelings for a classmate make the bee project anything but simple. This story includes lots of facts about bees and Colony Collapse Disorder.

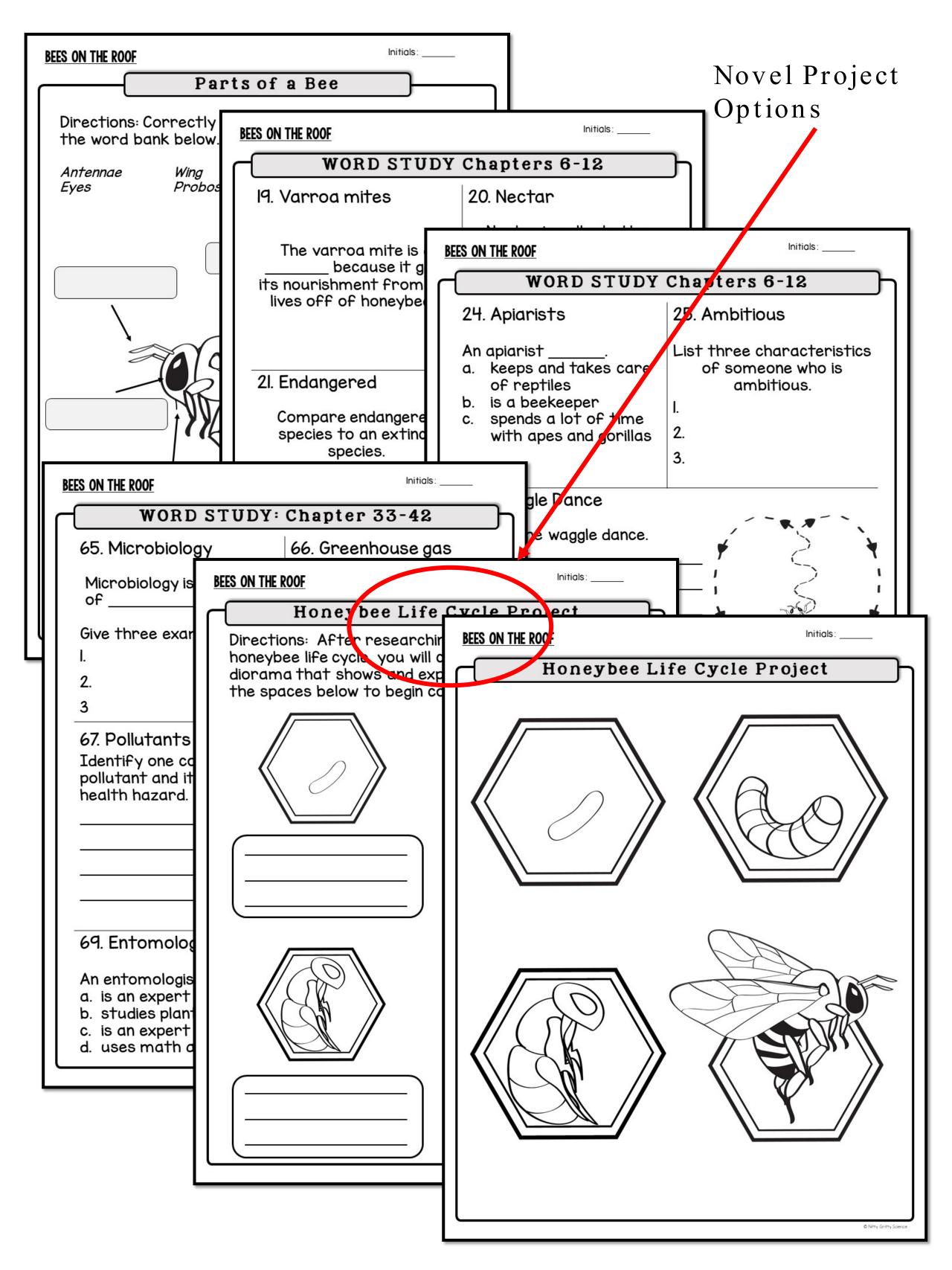
"Honey bees are endlessly fascinating creatures, with complex social organization, symbolic dance language, and altruistic behavior. Recent declines in honey bee populations worldwide have also raised our awareness of how important they are for pollinating our agricultural crops and maintaining a healthy and balanced environment. Bees on the Roof is a wonderful introduction into the world of bees, and the beekeepers who care for them. As anyone who has kept bees knows, caring for these complex creatures is both extremely challenging and rewarding. Indeed, what starts as a 'simple' science project for Sam and his friends turns into a life-changing journey, and their experiences with their colonies of honey bees help them learn about themselves, each other, their families, their community, and their world." —Christina Grozinger, Distinguished Professor, Entomology; Director, Center for Pollinator Research, Pennsylvania State University

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Check out the following sample pages focusing on science vocabulary, reading comprehension, and literacy-based projects!









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