POLLINATING YOUNG MINDS

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I begin with a seed unit before discussing pollinators. The following books are suggestions.

Ms. Frizzle's class is growing a garden, but Phoebe's plot is empty. Her flowers are at her old school. So, the kids climb aboard the Magic School Bus. They go to Phoebe's old school to get some of her old flowers, but they end up going inside the flowers. Follow the kid's colorful adventures as they learn how living things grow.

With the able assistance of Thing 1 and Thing 2—and a fleet of Rube Goldbergian vehicles—the Cat in the Hat examines the various parts of plants, seeds, and flowers; basic photosynthesis, and pollination.

Charlie the Origami bee may be new to the bug world, but he knows all about plants. When the other bugs lose their ball, his plant smarts come in handy. Buzz around with Charlie and learn about plant parts. The directions are also included to make an origami bee.

To Be Like the Sun is a lovely poem that shares a little girl's conversation with a sunflower seed as she follows it through the life cycle of the plant. I love how her curiosity reflects the way young kids approach nature and scientific discovery.
Ideas for Seed Unit

Multiples

Factoring

Book

fraction/decimal/%

Factors

➢ Greater than and Less Than

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Farming in a Glove                      Origami Parts of a Flower

(Both kits available from agclassroomstore.com)
What’s the secret to enjoying more blooms and greater harvests? Pollination! To increase the pollination of your garden plants, consider getting a **backyard bee house** for native solitary bees, such as mason bees and leafcutter bees.

**SOLITARY BEES: THE HEROES OF POLLINATION:** Most of us grew up learning about the sophisticated social structures of honey bees and bumblebees, and we’ve come to think that their lifestyle represents all bee behavior. The truth is, the world is home to more than 20,000 species of bees, and a whopping 90% of them do not live together in hives.

Instead, most of the world’s bees live alone. Unlike social bees, each female solitary bee has to gather pollen and nectar, build nests, and lay eggs all on her own, without the help of hundreds or thousands of doting workers. And although honey bees tend to get all the credit for keeping our crops going, native solitary bees are almost two to three times more effective pollinators!

So, if 90% of bees don’t live in hives, where do they live? Well, about 70% of solitary bee species nest underground in tunnels and burrows, while the remaining 30% nest aboveground, in holes in logs and stems.
When we think about pollination, it is typically the birds and the bees that come to mind. Most people have no clue that the bat also plays a huge role in that process. This takes place on a very large scale around the world. Some areas do depend on the pollination of bats more than others. They include Africa, Asia, and the Pacific Islands.

**Bats help with the pollination of many types of fruit in the world.** This includes bananas, mangos, and peaches. It is believed that over 500 different types of tropical plants are pollinated successfully every single year through the bats’ role. The fact that the bats can fly quite a distance before they drop seeds also helps to keep areas of growth highly diversified.

Bats tend to like flowers that don’t give off strong scents or offer bright colors. This is the opposite of what attracts bees. These types of flowers that the bats like also seem to have lots of nectar offered in them. Many experts believe that the birds and bees take the day shift and the bats take the night shift. Everything that we know about pollination in the day time occurs at night with the bats.

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Since many bats are migratory in nature, they can carry the pollination process great distances. Their movements are believed to continually introduce new plants to various locations out there. Sometimes the growth of them is successful. Other times it isn’t possible for those types of plants or flowers to grow in the new location. The bottom line though is that the bat really does have a substantial role in overall pollination efforts.
Which Items Are Pollinated?

Sugar Cane

Alfalfa

Tomato Plant

Blueberries
Shirt

cotton candy

Sweet tea
cow
These are a few activities that can be modified for your use. Patterns and instructions are included in your packet. Enjoy ☺