Since 1st grade students are not yet strong independent readers, there are many great videos that students can use for advanced research about the topics in this unit. Give students opportunities to share what they have learned with their classmates by setting aside class time for them to “be the teacher” or providing a digital place for students to share and respond to one another, such as...
posting videos to a class SeeSaw page or Flipgrid. Some topics and activities that may interest students include:

- Research plant adaptations by watching Sci Show Kids’ Plants with Weapons episode. Challenge students to create a model of a current plant and develop an adaptation that could help that plant survive.
- Take kids on a journey inside a flower using Sci Show Kids’ Look Inside a Flower episode to learn about its parts, then challenge students design a labeled 3-D model of a flower.
- Kids will enjoy using Sci Show Kids’ Meat-Eating Plants episode to study about carnivorous plants. Have students create a way to compare and contrast meat-eating plants with meat-eating animals.
- Kids can learn more about evergreen trees by watching Sci Show Kids’ Trees that Never Lose their Leaves and Guess That Tree episodes. Challenge students to find samples of evergreen trees in your area and create an evergreen guidebook or ask students to explain why evergreen trees are more likely to be used as Christmas trees than any other type of tree.
- Have students compare what they know about hibernation with how plants are adapted to survive the winter. This video from Loveland Living Planet Aquarium will provide helpful information to help kids explore “plant hibernation.”
- Students will also enjoy learning from and sharing about Sci Show Kids’ Life as a Tree episode and Sci Show Kids’ World’s Tallest Tree episode.

Advanced students crave knowledge, so it is important for us to nurture that and provide as many opportunities as we can for them to absorb and explain the “fun facts” they learn.

- Young students often do realize that many of the foods they eat and fibers they wear come from plants. Have students find pictures of plants such as cotton, peanuts, peaches, potatoes, bananas, pecans, etc. to see what they look like and where they grow. This is also a great opportunity to introduce students to some of Georgia’s top agricultural products and discuss their growing seasons. Invite a farmer to be a guest speaker—even virtually—and have him or her explain how their plants are affected by weather patterns.

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<th>Communication</th>
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<td>• Play the 20 Questions Mystery Box game with your students. Challenge students to find something that comes from a plant and put it in a shoebox to bring to school or to your live virtual class. Have other students ask yes/no questions about the object in the box to determine what’s inside. If the classmates guess what’s in the box in 20 questions or less, they win. If they don’t guess it before the questions run out, the Mystery Box student wins. This activity helps students learn to carefully phrase questions and develop logical thinking skills.</td>
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<td>• Have students bring a sample of a seed to class or select a sample from a variety you bring to school. (If you are having face-to-face school, students can save seeds from their lunch as</td>
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well.) Students will use their seeds to create a Seed Story that explains the journey the seed will take to become a plant. Students can choose to write their story in narrative form where the seed is personified as a character or write an informational book. Students might even enjoy creating a comic strip version of their Seed Story. If you have the space to do so, allow students to plant their seeds and take pictures at different stages of growth.

- Understanding the weather is important to help students know how to dress for school and special activities. Divide your students into teams who will be daily weather forecasters for your school’s morning news or morning announcements. On the day before their presentation, have your students research the high and low temperatures and expected weather, then record a weather report that includes suggestions for what students should wear to school the next day.

### Critical Thinking and Critical Problem-Solving Skills

- Have students explore the cause and effect relationships in plant life cycles and what plants need to grow and thrive by growing their own digital garden. In This PBS Kids activity, inspired by Nature Cat, students code with Scratch, Jr. to become garden experts like Daisy and Nature Cat.
- Help students understand that their diet includes many different parts of plants. Have students sort pictures on the Plant Parts We Eat activity. Then, challenge students to go on scavenger hunts in their kitchens at home to find other plants their family eats. Remind students that we can also eat plants that have been frozen, canned, dehydrated, refrigerated, etc. so they can look for options at home besides fresh plants.
- If your school has the space, planning a school garden is a great way to practice many critical thinking skills. The planning and maintenance of a garden includes many critical thinking skills, such as problem solving, organization, visualization, inquiry, systems thinking, curiosity, personal responsibility, and interpersonal skills. If you do not have the outdoor space, an alternative is to plant a window garden in your classroom. The garden is a great vehicle for exploring and learning.
- Learning to compare and contrast information is an important critical thinking skill for young learners to practice. Have students complete the People Need…Plants Need…Compare and Contrast Chart to practice this skill within the context of this unit. Another compare and contrast challenge is to have students compare and contrast different types of plants, such as fruit trees, wildflowers, house plants, vegetable plants, and grasses.
- Scattergories is a great game to encourage fluency of thought. Challenge students to think of a word that matches each letter of the alphabet for different categories. You can also play the game as a whole class by giving students a time limit and multiple categories, spinning one letter of the alphabet, and challenging students to determine an answer to each clue that begins with the letter for that round. Plant-themed Scattergories recording sheets can be found here.
Creative Thinking and Creative Problem-Solving Skills

- Challenge students to build a 3-D model of a plant that can stand on its own. It should be a unique plant (tree, flower, etc.) that has never been discovered before! Student models should include roots, stems, leaves, and flowers. Provide materials such as straws, pipe cleaners, construction paper, plastic cups, string, paper plates, pom-poms, toothpicks, and Play-dough. Encourage students to label the parts of their plants and explain how they work. Have students determine a name for their newly-discovered plant and explain its unique characteristics.

- Use the guided visualization technique to help students explore Plant Perspectives. Have students explain what they see or feel when they view a certain plant growing, such as an oak tree, sunflower, carrot, or grass. Then have students think about that plant from the perspective of other living things, such as a bird, a worm, an ant, a dog, the Sun, etc. These guided visualization notes can also be used as writing plans for creative narratives.

- Show students the Sci Show Kids episode Inventing with Plants. Then, challenge students to create their own new product or invention inspired by a plant’s features.

- Students can explore weather patterns in a creative way by planning their Dream Day. In this project, students must pick a date on the calendar, plan the weather temperature and forecast that would be ideal for their Dream Day, pack a suitcase with any items they would need, and plan their daily itinerary. This activity gives students a chance to practice original thinking and gives you a chance to assess their understanding about weather patterns.

Awareness of Self—Student’s Well-being

- As students conduct investigations during this unit, they may make mistakes that can lead to feelings of frustration. Gifted students are often perfectionists by nature, so it is important for us to help young students learn that they if your best effort is given, it is okay if things aren’t perfect. This article gives some tips teachers can use to help students see that making mistakes is a valuable part of the learning process.

- Gifted students are naturally very curious. Do what you can to help encourage and nurture that sense of wonder!