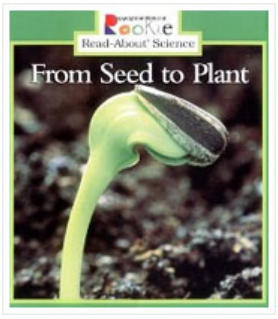
First Grade Plants Resource List

Next Generation Science Standards:
1-LS1 From Molecules to Organisms: Structures and Processes
1-LS3 Heredity: Inheritance and Variation of Traits

1-LS1-1. Use materials to design a solution to a human problem by mimicking how *plants and/or animals use their external parts to help them survive, grow, and meet their needs*.
LS1.A: Structure and Function
All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water and air. *Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive and grow.*
LS3.A: Inheritance of Traits
Young animals are very much, but not exactly like, their parents. *Plants also are very much, but not exactly, like their parents.*

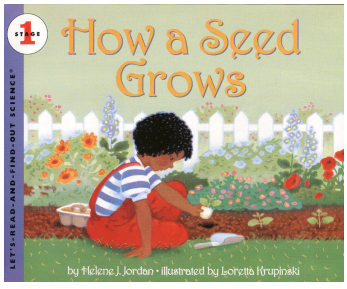
Books:

From Seed to Plant (Rookie Read-About Science) by Alan Fowler (2001)
Describes the development of a seed into a plant by means of pollination, fertilization and seed dispersal.



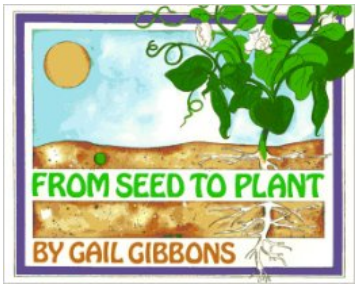
Guided Reading: J
32 Pages

How a Seed Grows (Let's-Read-and-Find-Out Science 1) by Helene J. Jordan (2000 Revised)
Uses observations of bean seeds planted in egg shells to demonstrate the growth of seeds into plants.



Guided Reading: I
32 Pages

From Seed to Plant by Gail Gibbons (1993)
Explores the intricate relationship between seeds and the plants which they produce.

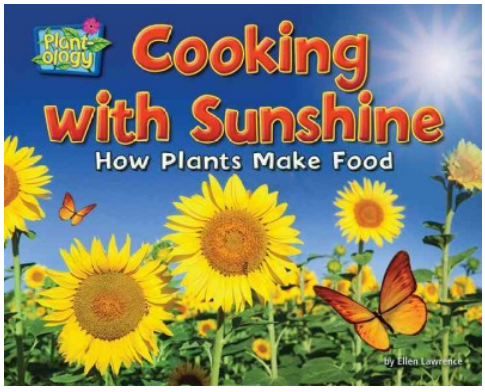


Guided Reading: M
32 Pages

From Seed to Pumpkin (Welcome Books: How Things Grow) by Jan Kottke (2000)
Illustrations and simple text describe how a pumpkin seed grows into a plant that produces pumpkins.

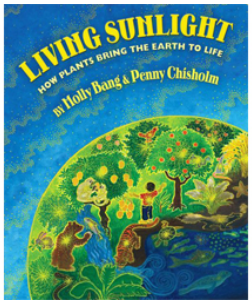
Guided Reading: F
24 Pages

Cooking With Sunshine: How Plants Make Food by Ellen Lawrence (2012)
Examines the process of photosynthesis and how it powers the lives of plants.



Guided Reading: L
24 Pages

Living Sunlight: How Plants Bring the Earth to Life by Molly Bang (2009)
Explains the cyclical relationship between photosynthesis in plants and respiration in animals.

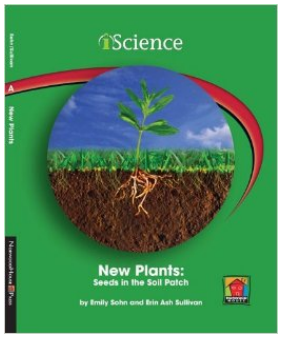


Guided Reading: J
40 Pages

Plants: Real Size Science by Rebecca Rissman (2013)
Utilizes real-size photographs to teach young learners about different plant parts. Instead of using words alone to explain the appearance and function of leaves, roots, flowers, seeds, and stems, this book conveys information with accurately-sized photographs. Simple, leveled text helps readers access this information and build vocabulary.

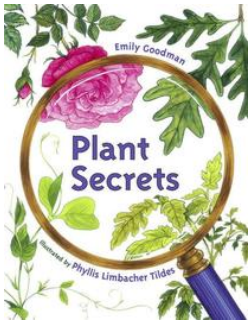
Guided Reading: J
24 Pages

New Plants: Seeds in the Soil Patch by Emily Sohn (2011)
Describes the parts, functions, and development of plants and includes an activity based on a real world situation that challenges readers to apply what they have learned to solve a puzzle.



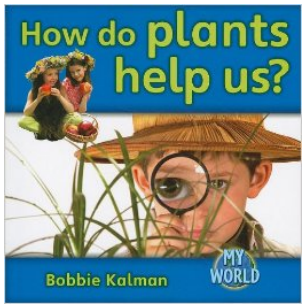
Guided Reading: K
24 Pages

Plant Secrets by Emily Goodman (2009)
Learn the secrets of plant life cycles, using four common (but very different) plants. Simple text and colorful illustrations show the major phases of plant growth: seed, plant, flower, and fruit.



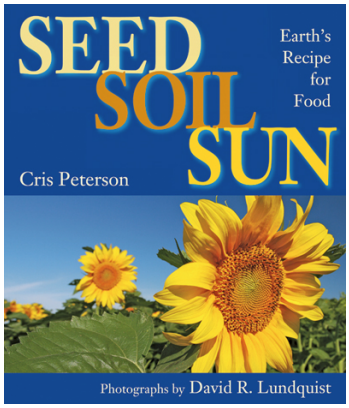
Guided Reading: H
40 Pages

How Do Plants Help Us by Bobbie Kalman (2011)
Discusses the physical characteristics of plants and describes their uses.



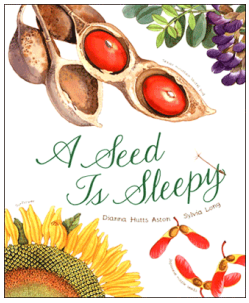
Guided Reading: I
16 Pages

Seed, Soil, Sun: Earth's Recipe for Food by Cris Peterson (2012)
Shows how plants germinate, grow, and produce food; looks at the composition of soil; and discusses the creatures who live in the soil.



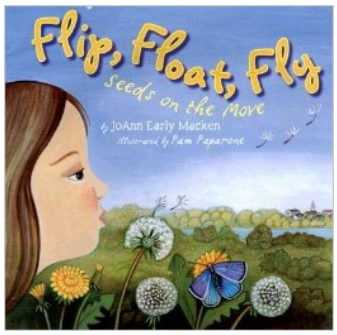
Guided Reading: n/a
32 Pages

A Seed is Sleepy by Diana Hutts Aston (2007)
An introduction to seeds; explaining their varying shapes and sizes, where they are found, and their life cycles.



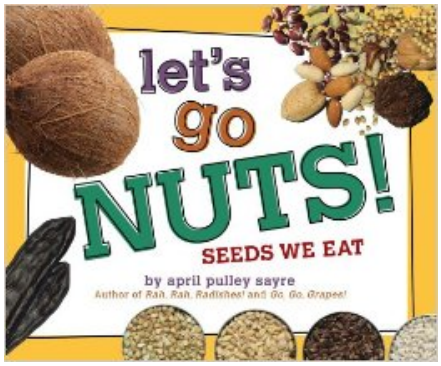
Guided Reading: O
40 Pages

Flip, Float, Fly: Seeds on the Move by Joanne Early Macken (2008)
Illustrations and simple text introduce children to how seeds travel from place to place and help propagate plants.



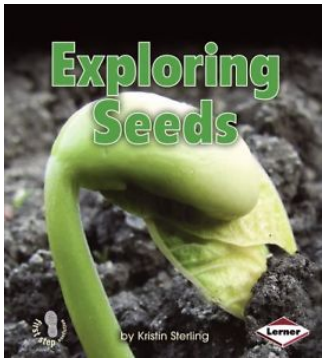
Guided Reading: M
32 Pages

Let's Go Nuts! Seeds We Eat by April Pulley Sayre (2013)
Demonstrates how healthy eating can be both fun and appetizing, while sharing engaging facts about seeds and providing an additional section on how to help nut-sensitive friends stay safe.



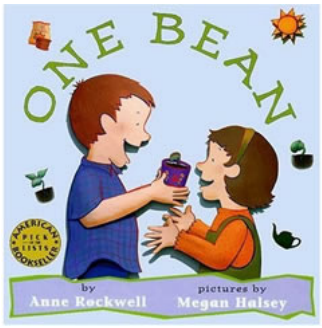
Guided Reading: H
32 Pages

Exploring Seeds by Kristin Sterling (2012)
Includes index. Color photographs and text provide information about seeds, what they are, and their role in helping plants grow.



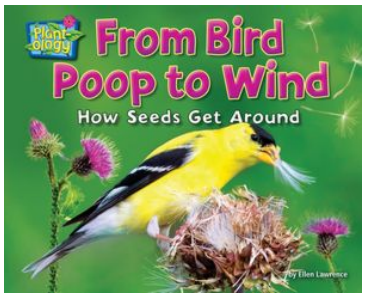
Guided Reading: H
23 Pages

One Bean by Anne Rockwell (1999)
Describes what happens to a bean as it is soaked, planted, watered, repotted, and eventually produces pods with more beans inside.



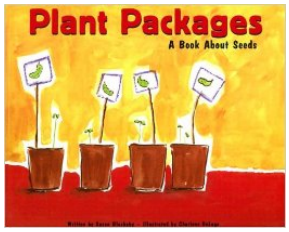
Guided Reading: I
32 Pages

From Bird Poop to Wind : How Seeds Get Around by Ellen Lawrence (2013)
Looks at the different ways that plants spread their seeds, from burrs and dandelion parachutes to floating coconuts and squirting cucumber plants.



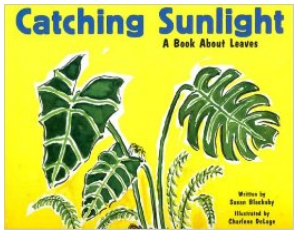
Guided Reading: M
24 Pages

Plant Packages: A Book About Seeds by Susan Blackaby (2003)
Includes bibliographical references and index. All kinds of seeds -- How seeds travel -- From seed to plant -- Seed sayings -- Fun facts -- Words to know -- Two kinds of seeds. Describes different kinds of seeds, explains how they turn into plants, and includes seed sayings, fun facts, and words to know.



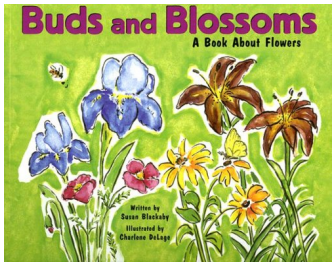
Guided Reading: J
24 Pages

Catching Sunlight: A Book About Leaves by Susan Blackaby (2003)
Includes bibliographical references and index. Leaves making food -- Leaves in spring -- Leaves in summer -- Leaves in autumn -- All kinds of leaves -- Leaf seasons -- Fun facts -- Words to know -- Comparing leaves. Explains what leaves do to help plants survive, describes the various types of leaves, and provides fun facts, words to know, and a leaf-related activity.



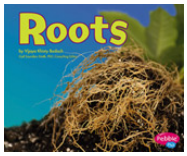
Guided Reading: N
24 Pages

Buds and Blossoms: A Book About Flowers by Susan Blackaby (2003)
Includes bibliographical references and index. Flower features -- Shades and shapes -- Insects, birds, and nectar -- How pollen gets around -- How seeds begin to grow -- Bugs and our planet -- First class flowers -- Fun facts. Describes the features, shades, and shapes of flowers, and looks at how flowers work together with insects and birds to reproduce. Includes fun facts and a glossary.



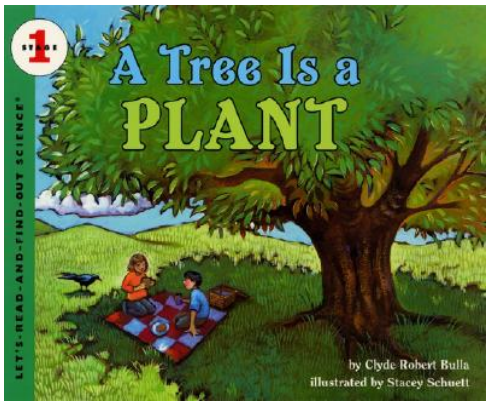
Guided Reading: M
24 Pages

Pebble Plus Plant Parts Series by Vijaya Bodach (2007)
Includes six titles: Flowers, Fruits, Leaves, Roots, Seeds and Stems.



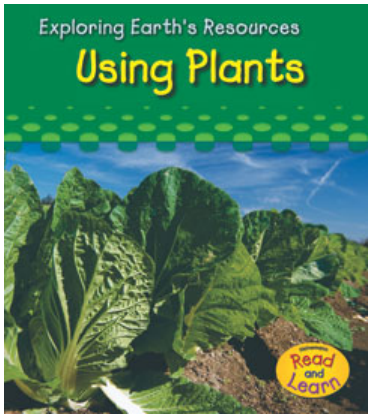
Guided Reading: I (Flowers, Leaves and Stems) H (Fruits, Roots and Seeds)
24 Pages Each

A Tree is a Plant by Clyde Robert Bulla (2001)
Describes how an apple tree grows from seed and explains how its roots obtain food and how its leaves change with the season.



Guided Reading: I
40 Pages

Using Plants by Sharon Katz Cooper (2007)
This book answers the questions: What are plants? Do all plants look alike? What do plants need to grow? How do we use plants?



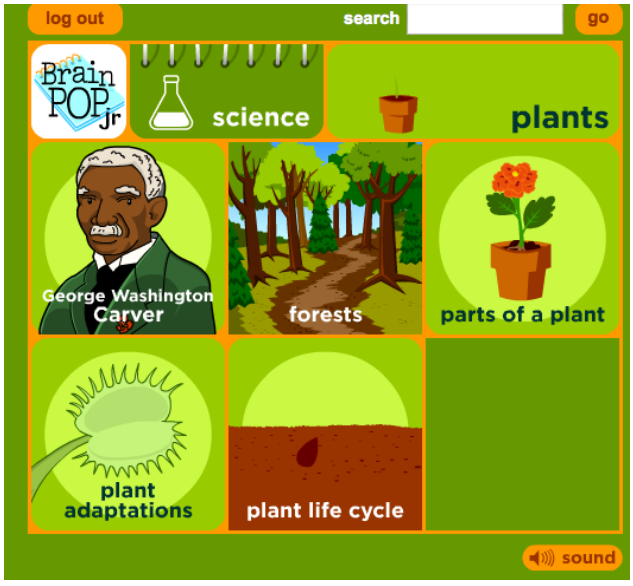
Guided Reading: K
24 Pages

Digital Resources

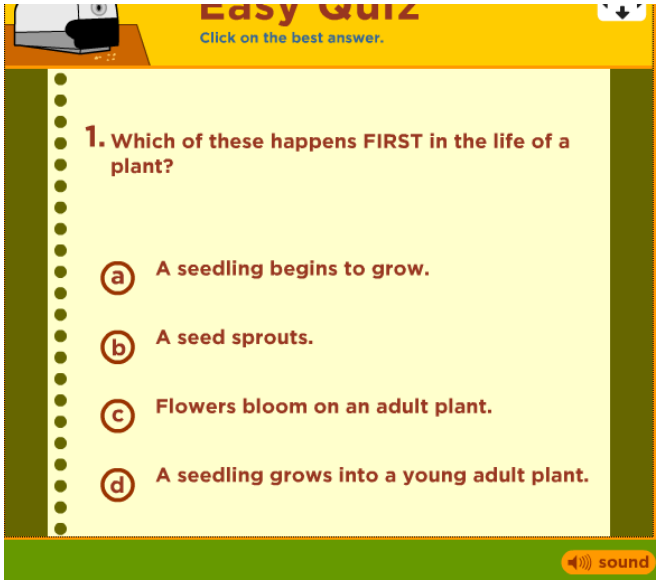
Databases: (To access these databases remotely, ask your librarian for your school's username and password.)

Brainpop Jr.: *Brainpop, Jr. is a database that provides a 3-6 minute video on informational topics followed by a comprehension quiz. The database includes activities and lesson plans as well. It is geared towards grades K-3.*

This selection of videos is offered which align with first grade science standards:

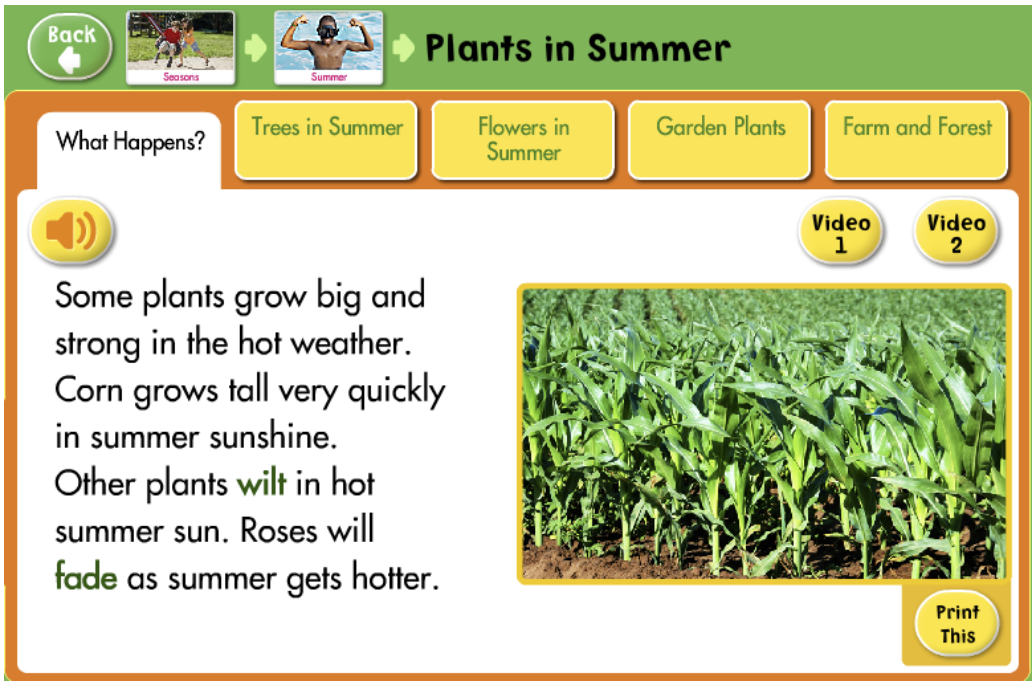


Two different online quizzes are offered after each video to check for understanding. They are entitled "Easy" and "Hard" with 5 questions each.



Pebble Go!: *Pebble Go is a database that includes non-fiction books, videos and activities. The target audience for Pebble Go is Kindergarten through 3rd grade, however Pebble Go can be a great way to pique interest in a topic for 4th and 5th graders. Each book is 5 pages long and includes a read-aloud button that highlights each word as it reads aloud. There are often one or two very short videos on the topic embedded within each book.*

Here are examples of Pebble Go books that align with Next Generation Science Standards for 1st Grade on Plants:



Back

Plants in Fall

What Happens? | Trees in Fall | Harvest Time | Planting Time | Time to Rest

Video 1 | Video 2

In fall, plants are done growing. Vegetables and fruits are ready for picking. Plants are getting ready for a winter rest. Plants are dormant in winter.

Print This

Back

Plants in Spring

What Happens? | Planting Time | Spring Flowers | Tree Blossoms | Moss and Fungus

Video 1 | Video 2

Plants begin to grow in spring. Sunshine warms the Earth. Spring rain waters dry plant roots. Tiny buds pop out on stems and branches. New leaves open and reach up to the sun.

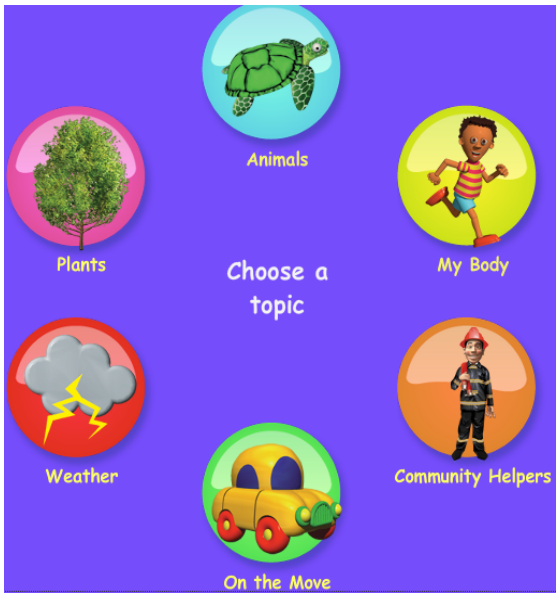
Print This

World Book Web:

The World Book Web is a suite of online research tools that includes encyclopedia articles, primary source collections, educator tools, student activities, pictures, audio, and video, complemented by current periodicals and related Web sites. Most all of these World Book Web research tools include options where text can be read aloud to the user. All Ithaca elementary school libraries currently subscribe to ***World Book Kids****,* ***World Book Student****,* ***World Book Discover****,* ***World Book Timelines*** *and* ***World Book Classroom: Early World of Learning****. For specific training in how to use these amazing tools consult Worldbook's training website or ask your school's librarian.* http://www.worldbookonline.com/training/

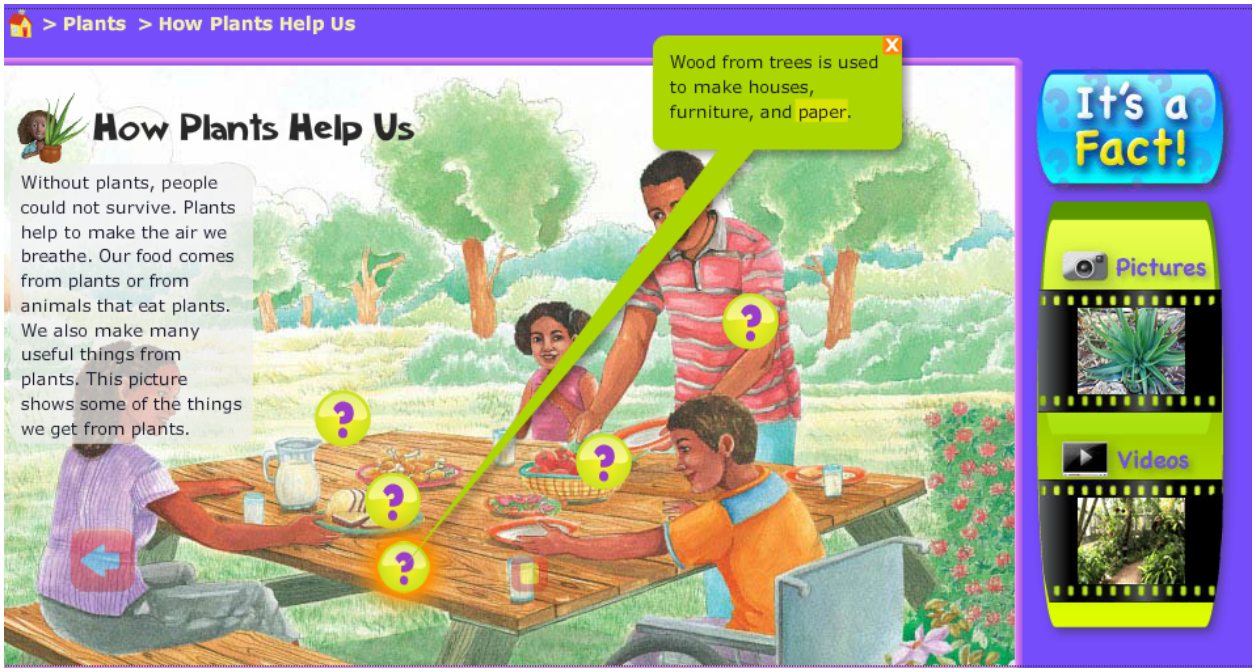
The best 1st Grade resources from the above list are in ***World Book Classroom: Early World of Learning.*** Early World of Learning includes a section on Plants that aligns with 1st Grade's Next Generation Science Standards for Plants.

In Early World of Learning first Click on "Know It," then on "Plants." Within this section there are a number of different options available to you. It is possible for you to create an account in Early World of Learning, set up a classroom, and use quizzes to check your students for understanding. There are built-in quizzes, and you can also design your own. in Early World of Learning, set up a classroom, and use quizzes to check your students for understanding. There are built-in quizzes, and you can also design your own



Students can choose from the following plant related subjects to learn more.

When you select a subject, there is a paragraph that is read aloud if you click on it. The question marks on the picture all include one fact that are read aloud if you click on them. There is a bonus fact in “It’s a Fact!” There are also pictures and videos on the right to supplement the information on the left.



Websites:

BBC Science Clips: Growing Plants
http://www.bbc.co.uk/schools/scienceclips/ages/5_6/growing_plants.shtml
Students can water a plant to see it grow to full height.

BBC Science Clips: Plants and Animals in the Local Environment
http://www.bbc.co.uk/schools/scienceclips/ages/6_7/plants_animals_env.shtml
Students can find living plants and animals in a park and then sort them.

Interactive: Plant Life
http://www.catie.org.uk/PL_plant_life_page.html
An infographic that gives animated information about plants, roots, nutrients and plant growth.

Plant Parts
http://www.softschools.com/science/plants/plant_parts/
Students drag the names of plant parts into a diagram.

All About Plants
http://www.bgfl.org/bgfl/custom/resources_ftp/client_ftp/ks2/science/s_plants/index.htm
An animated bee takes students through the process of plant growth and photosynthesis.

Life in the Ocean
http://www.calstatela.edu/faculty/eviau/edit557/oceans/norma/onfrm.htm
Learn about the plants and animals that live together in one of these four habitats: sandy beach, tide pool, kelp forest, and the open seas.

The Life Cycle of Plants
http://www2.bgfl.org/bgfl2/custom/resources_ftp/client_ftp/ks2/science/plants_pt2/index.htm
Includes five different sections: Seed growth, parts of a flower, seed dispersal, worksheets, and plant identification. Short animated clips illustrate seven different ways that seeds are dispersed. Plant identification includes different kinds of tree leaves and flower petals.

iPad apps:

Plants HD - by Sprout Labs, LLC
Cost: $2.99
Interactive content about plants and their life cycle. Covers topics like seeds, germination, pollination, flowers, trees, fruits and dispersal. Includes quizzes and games.

Plants by Kids Discover
Cost: $3.99
Information about the process of photosynthesis and the many ways humans depend on plants for their own survival.

Seed Cycle - by Seed Pod Productions
Cost: $0.99
Users can grow flowers while learning about plant growth and pollination. Includes informative text with a read-to-me option. Use a bee to pollinate flowers.

A Seed Grows by Language Technologies, Inc
Cost: Free
A Learning A-Z book on the life cycle of a plant,from a seed falling on the ground to the production of roots and leaves, to the production of a new seed. Discussion questions included after text.