



Why Leaves Change Color

Bring the outdoors into your class through this interactive display idea that reinforces math and graphing skills.

Photosynthesis is the process used by plants to make food.

Twilight energy is absorbed by chlorophyll in the leaves.
Carbon dioxide from the air enters through the leaves.
Water enters through the roots.
Plants use sunlight to turn water and carbon dioxide into glucose, a food for energy and growth.

The amount of daylight affects the color of leaves.

During summer there is more sunlight and the green chlorophyll makes up most colors in the leaves.

During fall there is less sunlight to make chlorophyll. The green fades and the other colors appear.

Three types of pigment create fall color changes.

<p>Chlorophyll</p> <p>gives leaves their green color during photosynthesis.</p>	<p>Carotenoids</p> <p>are always present and produce yellow, orange, and brown colors.</p>	<p>Anthocyanins</p> <p>are present in some leaves and produce red and purple colors.</p>
--	---	---

WHY LEAVES CHANGE COLOR

Exploring Photosynthesis

All							
Most							
Some							
Few							
None							
	Week One	Week Two	Week Three	Week Four	Week Five	Week Six	Week Seven

COLOR OF THE LEAVES

Featured Display

Nature puts on a terrific show in the fall. Invite kids to focus on one tree near your school and track its changes. This activity is a great way to build observation and graphing skills. Starting in early fall, have weekly sessions to observe the tree, and then add accents to the bulletin board display to reflect the changing leaf colors. Use a TREND Wipe-Off® Graphing Grid (T-1093) to graph the changes. Discuss your findings.

You'll need

- T-8602 Why Leaves Change Color**
Mini Bulletin Board Set
- T-80021 Tree Bark**
Discovery™ Trimmers
- T-10813 Fall Leaves**
Mini Accents Variety Pack
- T-10814 Spring Leaves**
Mini Accents Variety Pack
- T-1093 Wipe-Off® Graphing Grid**
- T-1790 Green 2" STICK-EZE®**
Stick-On Letters

Fadeless paper and double-stick tape.

Keep the theme going

- T-38192 Photosynthesis**
Learning Chart
- T-38119 Water Cycle**
Learning Chart
- T-80017 Fall Leaves**
Discovery™ Trimmers
- T-80015 Mossy Forest**
Discovery™ Trimmers
- T-79294 Kelly Green 4"**
Venture Ready Letters®
- T-79252 Natural Elements 4"**
Venture Ready Letters®
- T-72402 Black-Eyed Susans**
Note Pad
- T-46177 Fall Leaves**
superSpots® Stickers

This creative activity sheet is a gift from your TREND Retailer!