



Photosynthesis: Why Leaves Change Color

DIRECTIONS: Read "Why Leaves Change Color" at <https://www.na.fs.fed.us/fhp/pubs/leaves/leaves.shtm>. Then read each statement below. Write T on the line next to each true statement. Write F on the line next to each false statement.

1. _____ Both the length of night and changing temperatures affect autumn leaf color.
2. _____ Chlorophyll gives leaves their green color.
3. _____ Carotenoids give corn and carrots their colors.
4. _____ Leaves of many trees contain both chlorophyll and carotenoids.
5. _____ Leaves produce more chlorophyll as autumn days pass.
6. _____ Oak trees' leaves are usually among the first to change color.
7. _____ The best weather conditions for great fall colors include cool days and freezing nights.
8. _____ The needles of an evergreen tree survive for years partly because they are covered with a heavy wax coating.
9. _____ Evergreen needles fall off from old age.
10. _____ The fluid the leaves of many trees is a thin watery sap that freezes.