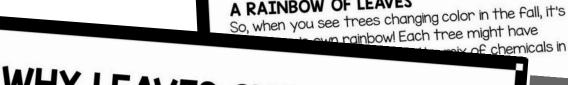
Why Leaves Change Color?

READING COMPREHENSION



WHY LEAVES CHANGE COLOR

Have you ever wondered why leaves change color? It's a magical process that happens every year, and 's all because of science!

WHAT HAPPENS In the fall, when

weather ge to the ready

ALL?

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ives are green because of a chemical called eaves make food for the tree through a

A RAINBOW OF LEAVES

and there is less sunlight, the tree stops nyll, the green color fades away, and other start to show!

RED, ORANGE, AND YELLOW

The colors you see in the fall, like red, orange, and yellow, are actually there all year round. They are just hidden behind the green chlor during the spring and sur

Some of the colors, like yell w and orange, come carotenoids. These chemicals are always in the le

Other colors, like red and purple, come from che Anthocyanins are produced in the fall when the s

EAVES CHANG most beautiful parts of fall. and that nature is always full

OSE THE CORRECT ANSWER.

to trees in the fall? nore leaves

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THE ROLE OF CAROTENOIDS

visible when the chlorophyll goes away THE MAGIC OF ANTHOCYANINS

READING COMPREHENSION MCQ'S **QUESTIONS ANSWER KEY**

reember the science behind it. It's

reand it's all thanks to the amazing



NO-PREP &

EDITABLE

READING PASSAGES WITH TEXT DEPENDENT QUESTIONS

WHY LEAVES CHANGE COLOR

Have you ever wondered why leaves change color? It's a magical process that happens every year, and it's all because of science!

WHAT HAPPENS IN THE FALL?

In the fall, when the days start getting shorter and the weather gets cooler, something special starts to happen to the trees. They prepare for winter by getting ready to lose their leaves.



THE GREEN MACHINE

During the spring and summer, leaves are green because of a chemical called chlorophyll. Chlorophyll helps the leaves make food for the tree through a process called photosynthesis.

A COLORFUL SURPRISE

But when the days become shorter and there is less sunlight, the tree stops making chlorophyll. Without chlorophyll, the green color fades away, and other colors that were there all along start to show!



RED, ORANGE, AND YELLOW

The colors you see in the fall, like red, orange, and yellow, are actually there all year round. They are just hidden behind the green chlorophyll during the spring and summer.

THE ROLE OF CAROTENOIDS

Some of the colors, like yellow and orange, come from chemicals called carotenoids. These chemicals are always in the leaves, but they become more visible when the chlorophyll goes away.

THE MAGIC OF ANTHOCYANINS

Other colors, like red and purple, come from chemicals called anthocyanins. Anthocyanins are produced in the fall when the sugars trapped in the leaves react with sunlight.

READING COMPREHENSION

COLORED & B/W VERSIONS INCLUDED

Ready to Prints Editable



A RAINBOW OF LEAVES

So, when you see trees changing color in the fall, it's like nature's own rainbow! Each tree might have different colors because of the mix of chemicals in its leaves.



THE BEAUTY OF CHANGE

Watching the leaves change color is one of the most beautiful parts of fall. It's a reminder that change can be wonderful and that nature is always full of surprises.

CONCLUSION

Next time you see leaves changing color, remember the science behind it. It's a magical process that happens every year, and it's all thanks to the amazing world of nature!

SHORT ANSWER QUESTIONS

- I. What causes leaves to change co
- 2. What is chlorophyll's role in leaf
- 3. Name two types of chemicals re other than green.
- 4. When do trees stop producing
- 5. Why does each tree have diffe

6. When are colors like red and pur

- a) During spring
- b) During summer c) During fall
- d) During winter

- 7. What is the role of carotenoids in a) They make leaves green
- b) They make leaves red and purple They make leaves yellow and orange
- d) They help leaves grow bigger

8. What happens to sugars trapped in

- a) They disappear
- b) They react with sunlight
- c) They turn into chlorophyll
- d) They turn into carotenoids

q. Why does each tree have different d

- a) Because they have different types of b) Because they have different amounts
- c) Because they have different chemicals
- d) Because they have different shapes

10. What is the main idea of the passage

- a) Trees lose their leaves in the fall b) Leaves change color because of chemic
- c) Fall is the most beautiful season
 - e color because of magic

F.

Name.

WHY LEAVES CHANGE COLOR

DIRECTIONS CHOOSE THE CORRECT ANSWER.

I. What happens to trees in the fall?

- a) They grow more leaves
- b) They prepare to lose their leaves
- c) They turn into different types of trees
- d) They stop growing altogether

2. What gives leaves their green color during the spring and summer?

- a) Chlorophyll
- b) Carotenoids
- c) Anthocyanins
- d) Sunlight

3. What happens to chlorophyll when the days become shorter?

- a) It increases in quantity
- b) It fades away
- c) It turns red
- d) It changes into carotenoids

4. Which chemical is responsible for colors like yellow and orange in leaves?

- a) Chlorophyll
- b) Carotenoids
- c) Anthocyanins
- d) Sunlight

5. What causes colors like red and purple in some leaves?

- a) Chlorophyll
- b) Carotenoids
- c) Anthocyanins
- d) Sunlight

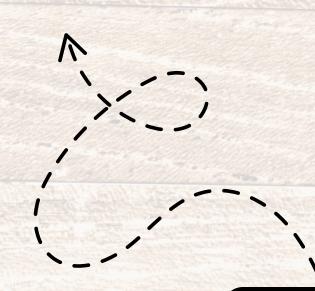
ANSWER KEY

MCQS

- 1. b) They prepare to lose their leaves
- 2. a) Chlorophyll
- 3. b) It fades away
- 4. b) Carotenoids 5. c) Anthocyanins
- 7. c) They make leaves yellow and orange
- q. c) Because they have different chemicals in their leaves 8. b) They react with sunlight 10. b) Leaves change color because of chemicals

SHORT-ANSWER QUESTION

- 1. Leaves change color in the fall due to the decrease in sunlight
- 2. Chlorophyll gives leaves their green color during spring and summer by helping in photosynthesis.
- 3. Carotenoids and anthocyanins are two types of chemicals responsible for leaf colors other than green.
- 4. Trees stop producing chlorophyll when the days become shorter and there is less sunlight.
- 5. Each tree has different colors in the fall because of the mix of chemicals in its leaves.



10 - MCQ'S & 5 QUESTIONS

ANSWER KEY INCLUDED