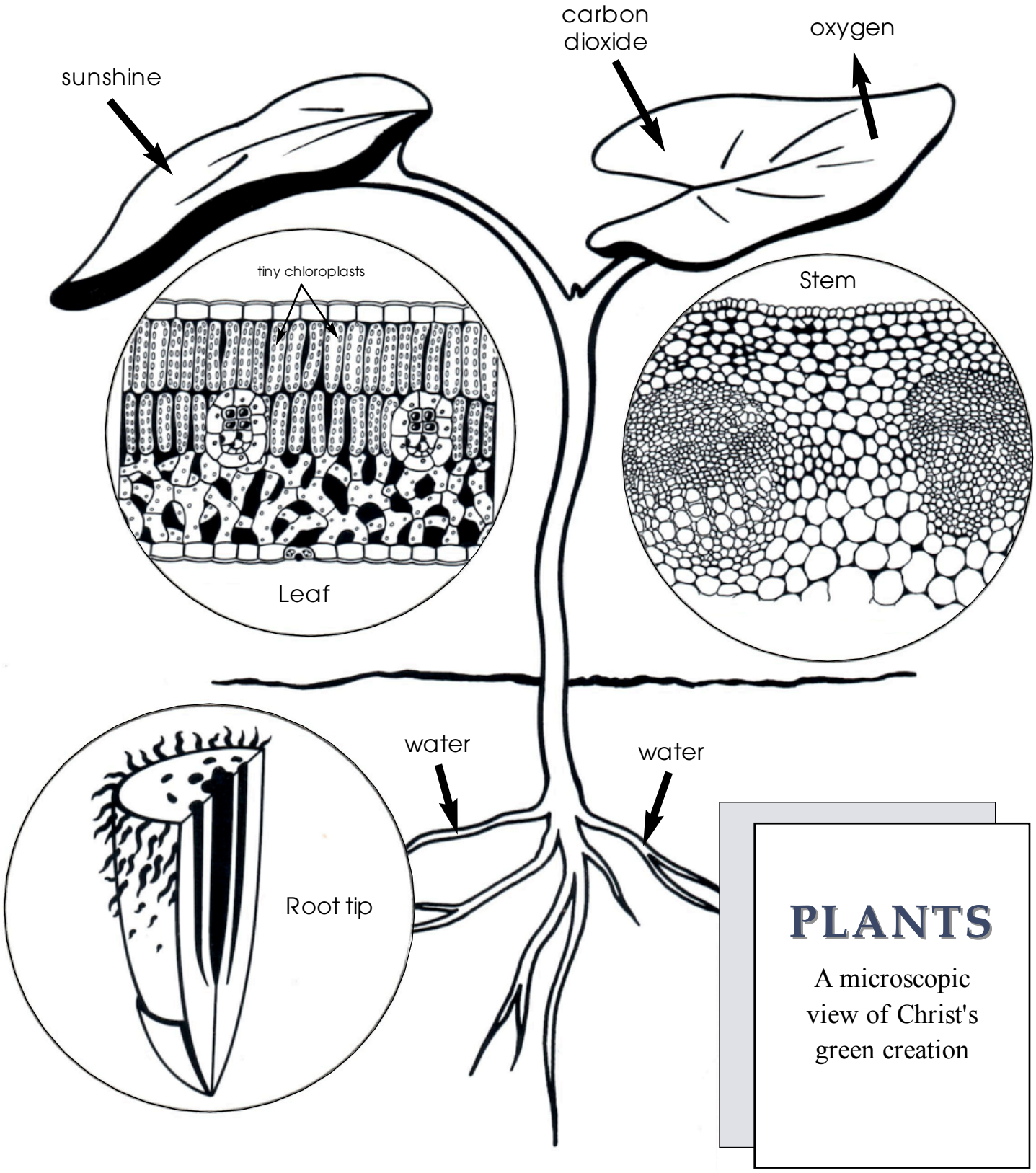
kids' kreation

88

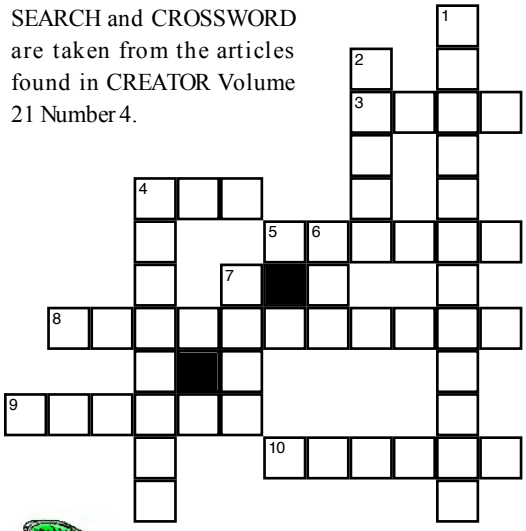


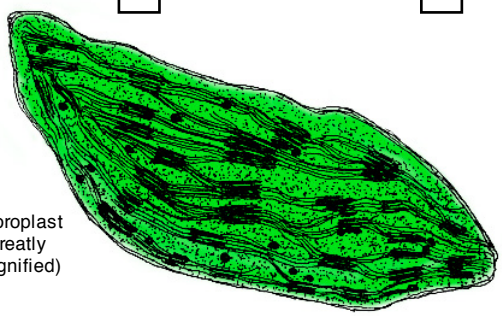
PLANTS

A microscopic view of Christ's green creation

CROSSWORD

The words used in the WORD SEARCH and CROSSWORD are taken from the articles found in CREATOR Volume 21 Number 4.





chloroplast (greatly magnified)

Down

1. _____ are microscopic green bags in plant cells that are filled with chlorophyll.
2. Green plants take the energy of sunlight and turn it into _____ .
4. Photosynthesis is the marvelous way Jesus converts the pure energy of _____ into food.
6. Called the "energy currency of life," ___ molecules are like tiny "batteries" that power our cells.
7. At the center of a heme molecule is an atom of _____ .

Across

3. Compared to the beauty of Jesus, our sins are ____.
4. The energy God provides to plants and animals comes from the ___ .
5. Through photosynthesis, our Lord Jesus converts _____ dioxide and water into sugar and oxygen.
8. _____ is a green pigment in plants that captures photons.
9. Green chlorophyll captures photons of sunlight; red hemoglobin captures _____ and carries it in your blood.
10. "One thing I have asked from the LORD, that I shall seek: . . . To behold the _____ of the LORD" (Psalm 27:4 NASB).

FAMILY ACTIVITY: CHLOROPHYLL

THiS ACTIVITY SHOULD BE DONE WITH AN ADULT!

You can extract chlorophyll from a leaf fairly easily. WITH AN ADULT PRESENT take a fresh green leaf and tear it up into tiny pieces. Place the pieces in a small, clear glass of rubbing alcohol. BE CAREFUL NOT TO GET THE ALCOHOL NEAR A STOVE OR OPEN FLAME BECAUSE IT IS FLAMMABLE! Soak the leaf in alcohol for one hour or longer.

Note the color of the alcohol afterwards. Why did it turn green?

Breaking up the leaf disrupts some of the plant cells containing chloroplasts and chlorophyll, thus allowing chlorophyll to be released into the alcohol. As the leaf pieces lose chlorophyll they may turn pale green.

WORD SEARCH

WORD BANK

ATP	CHLOROPHYLL	IRON	PHOTONS
BASEBALL	ENERGY	LIGHT	PLANTS
BEAUTIFUL	FOOD	MAGNESIUM	STOMATA
CALVIN	GREEN	MOLECULE	SUGAR
CATCHER	HEMOGLOBIN	OXYGEN	SUN

A P E L U C E L O M I O
L L T S I Y N H U G R N
P A L A T I G I L R O U
R N T Y V O S R B E N S
A T L L H E M E E E G N
G S A I N P A A G N R O
U C T G G U O Y T A E T
S I A H T H X R P A T O
D M N I B O L G O M E H
O O F B A S E B A L L P
O U O T T G I L I G H T
L G R F R R E H C T A C