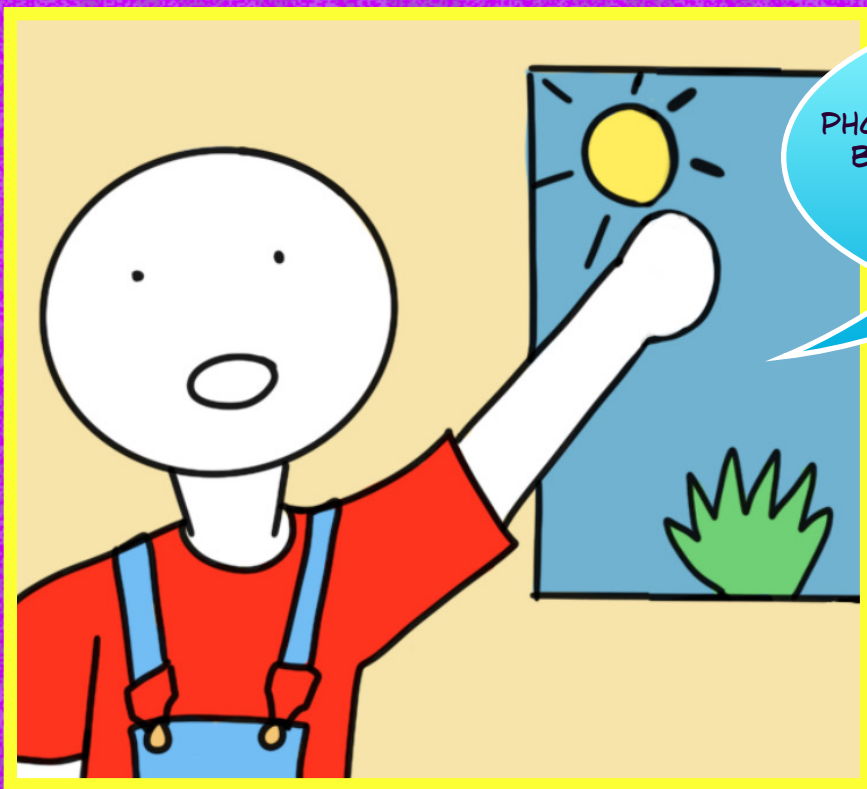
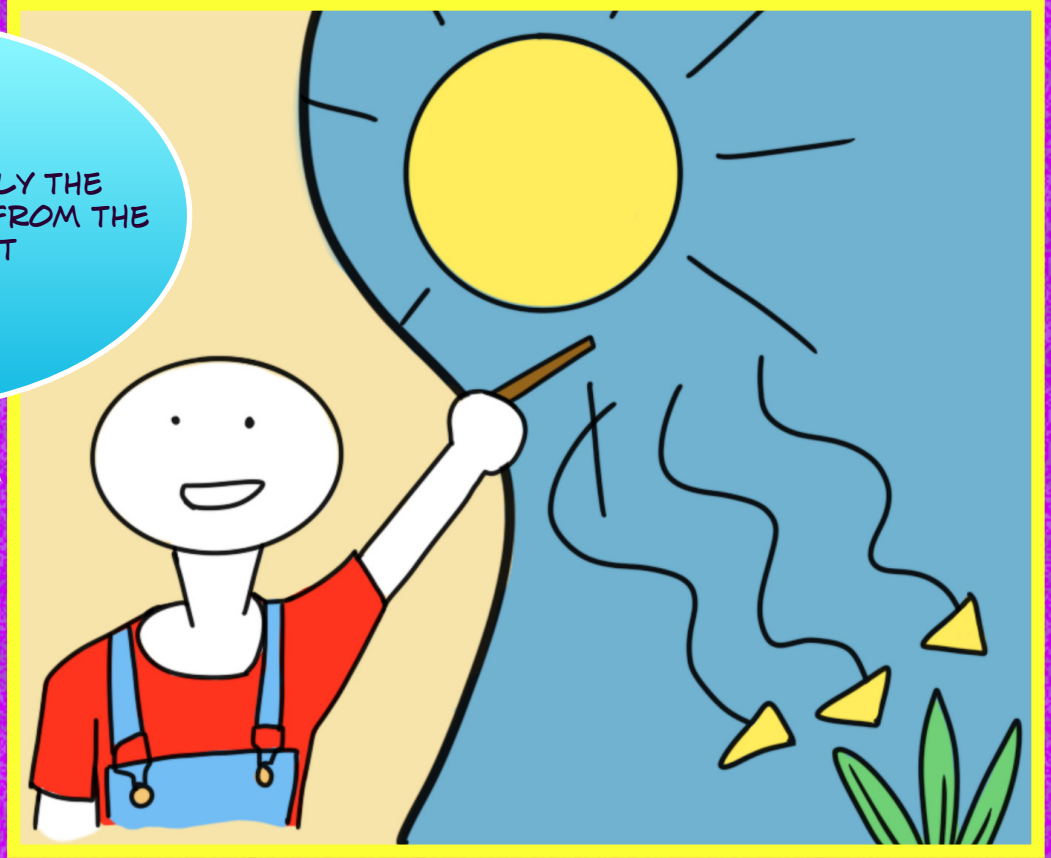


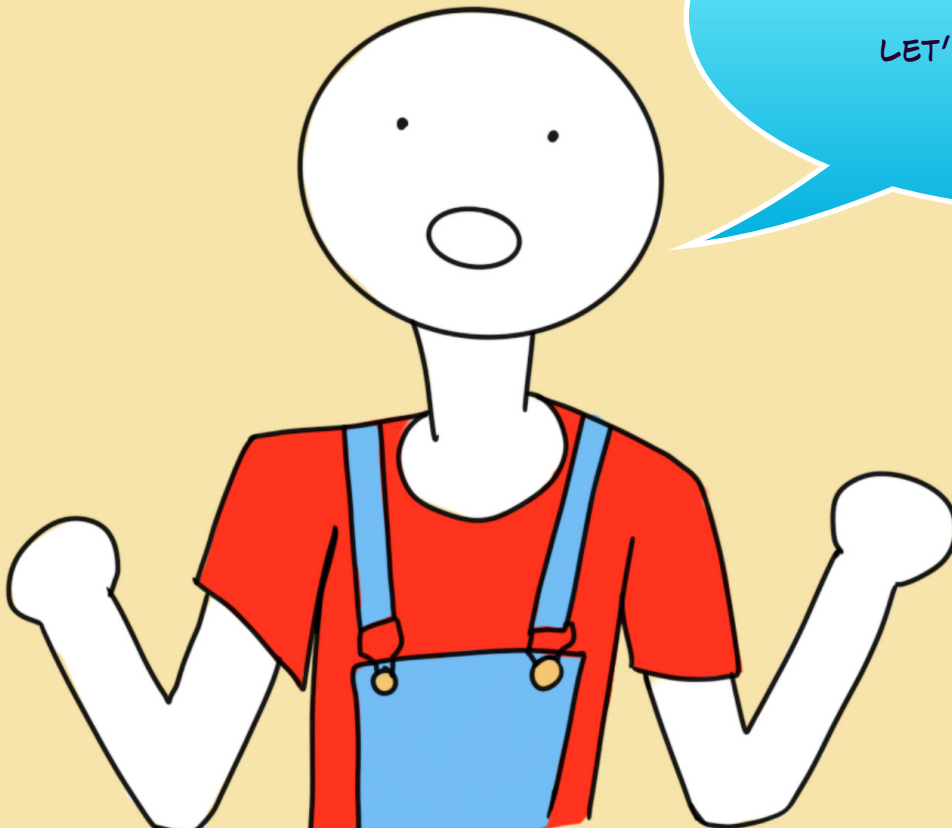
# PHOTOSYNTHESIS: EXPLAINED

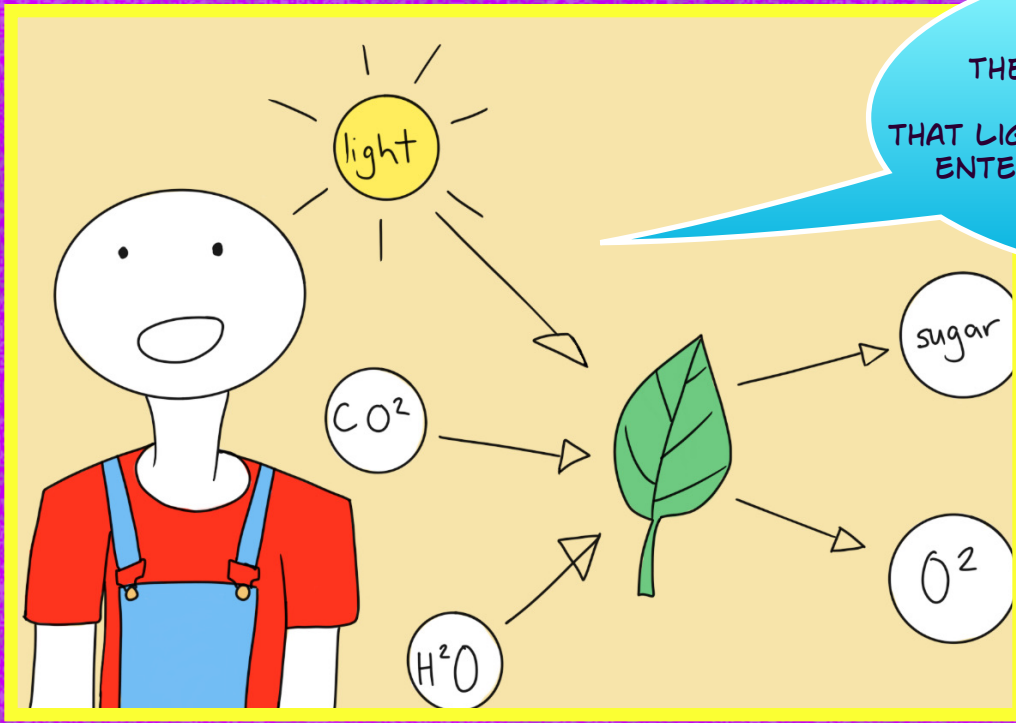


WHICH IS ESSENTIALLY THE  
TRANSFER OF ENERGY FROM THE  
SUN TO A PLANT



YOU MAY BE WONDERING, HOW DOES THIS  
ALL WORK???  
LET'S GO TAKE A LOOK!



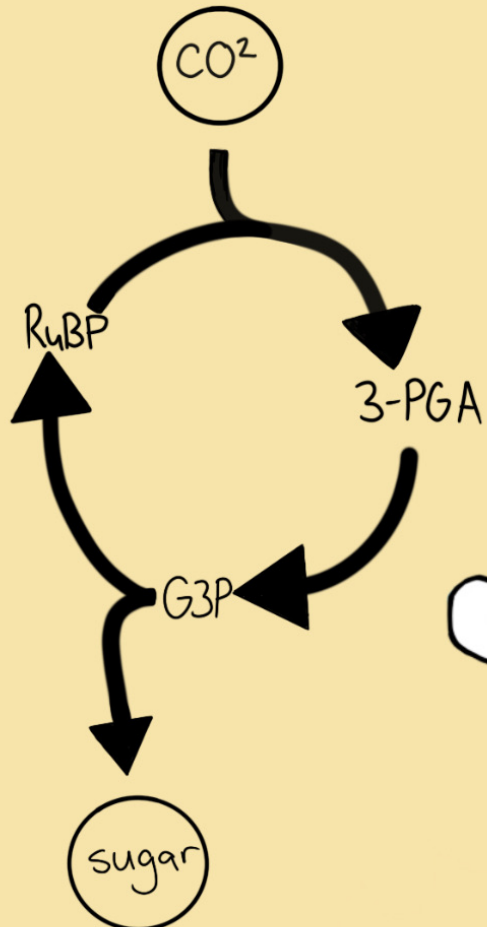
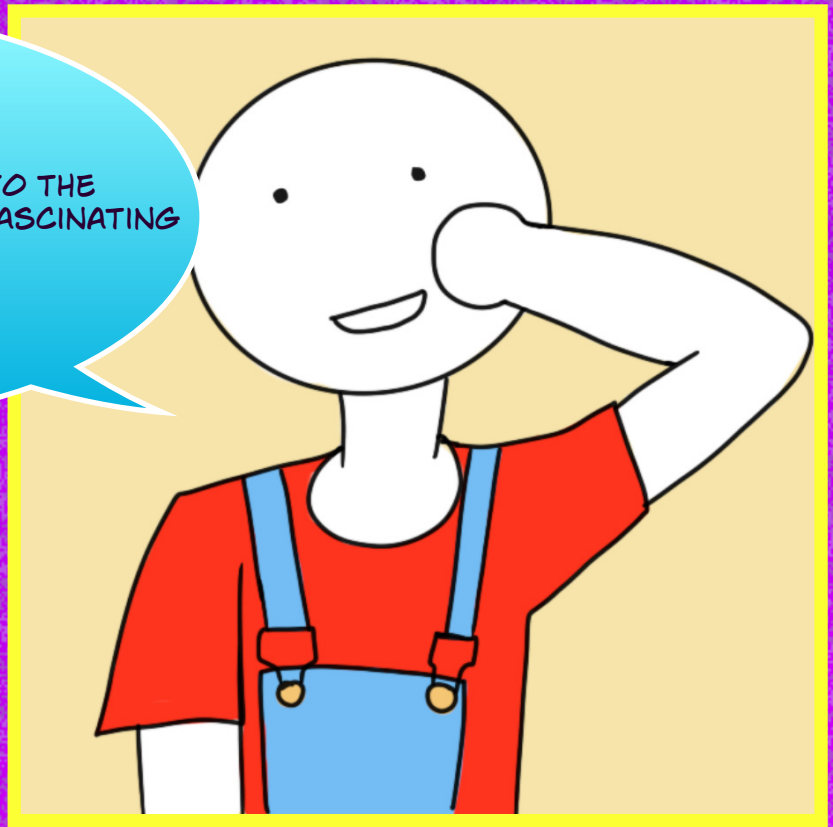


THE PHOTOSYNTHESIS PROCESS  
MEANS  
THAT LIGHT, CARBON DIOXIDE, AND WATER  
ENTER THE PLANT AND IT PRODUCES  
SUGAR AND OXYGEN



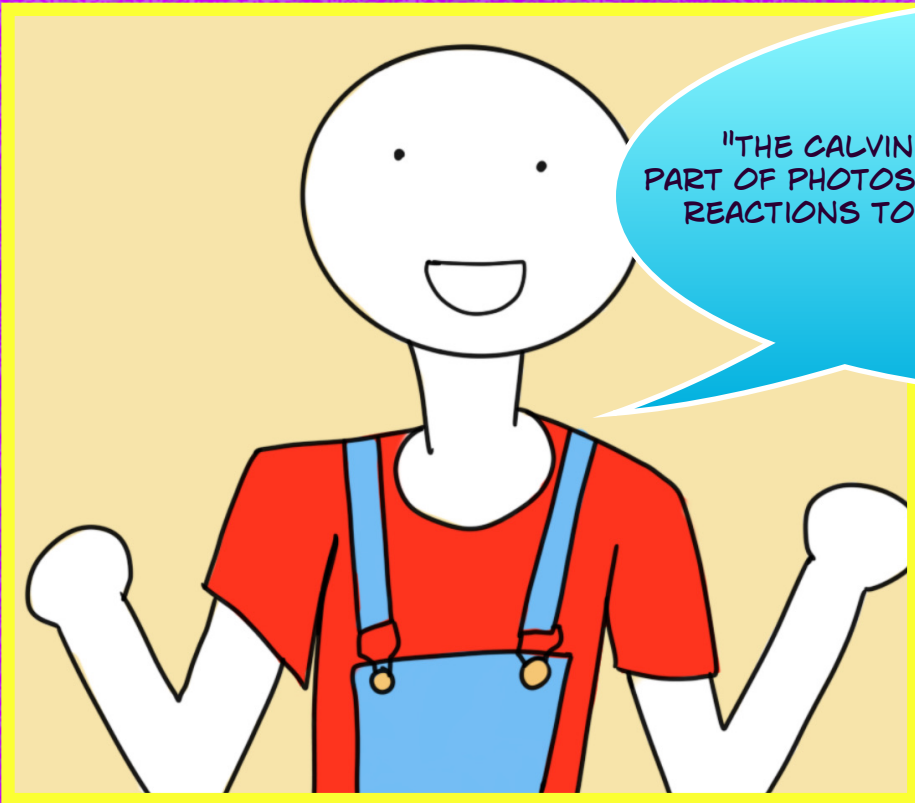
ISN'T THAT INTERESTING ?!

LET'S TAKE A DEEPER DIVE INTO THE CELLULAR SCIENCE BEHIND THIS FASCINATING PROCESS!



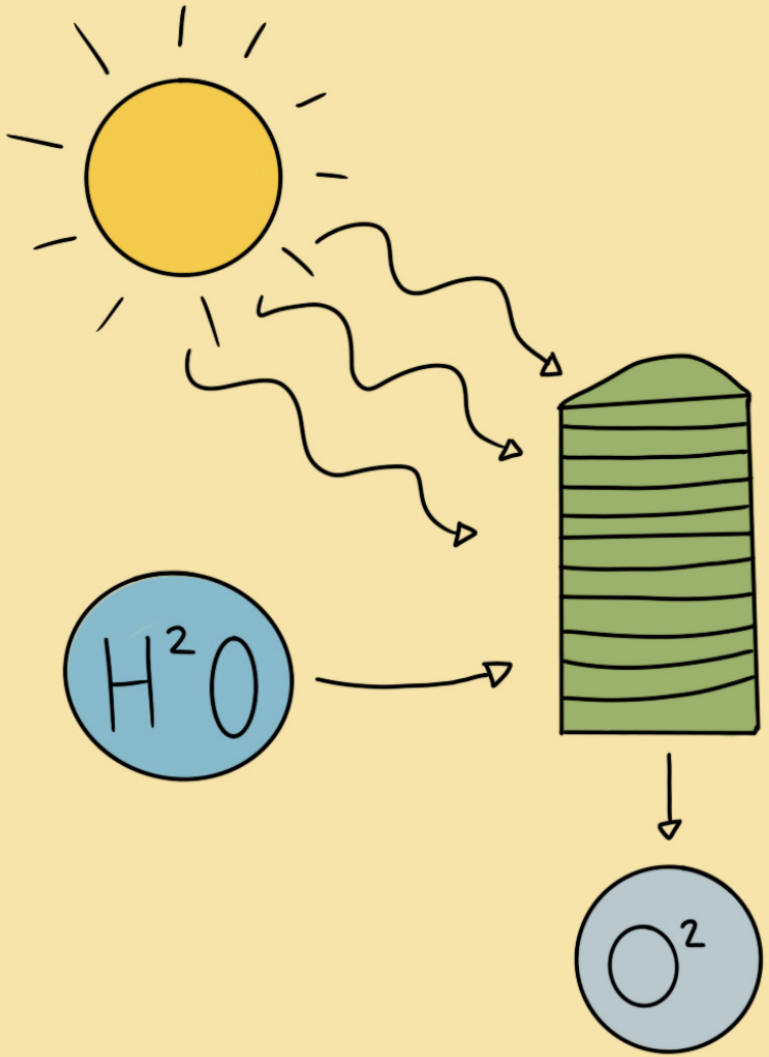
$\text{CO}_2$  IS CONVERTED INTO SUGAR BY THE CALVIN CYCLE

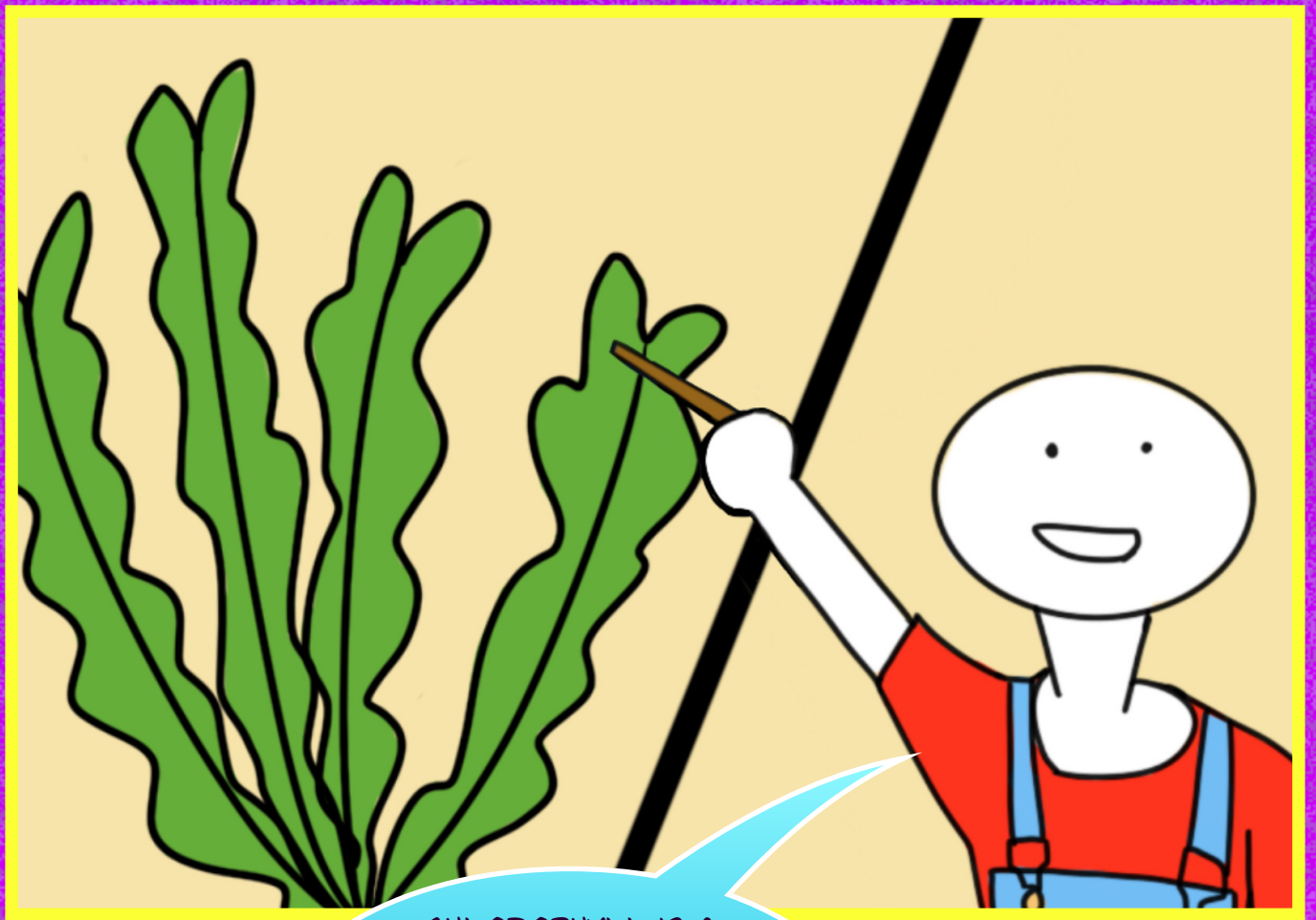




"THE CALVIN CYCLE IS THE LIGHT INDEPENDENT PART OF PHOTOSYNTHESIS - IT IS A CYCLE OF CHEMICAL REACTIONS TO FIX CARBON FROM CO<sub>2</sub> INTO THREE-CARBON-SUGARS"

WHEN SUNLIGHT AND WATER ENTER THE ORGANISM IT CREATES OXYGEN BY THE CHLOROPHYLL ABSORBING ENERGY FROM LIGHT WAVES WHICH IS CONVERTED INTO CHEMICAL ENERGY IN THE FORM OF THE MOLECULES ATP AND NADPH





CHLOROPHYLL IS A LIGHT ABSORBING PIGMENT WHICH IS RESPONSIBLE FOR MAKING PLANTS APPEAR GREEN. DURING PHOTOSYNTHESIS IT ABSORBS ENERGY FROM RED AND BLUE LIGHT WAVES AND REFLECTS IT GREEN



THANKS FOR LEARNING ABOUT PHOTOSYNTHESIS WITH ME!!

THE END