

ACTIVITIES & WORKSHEETS

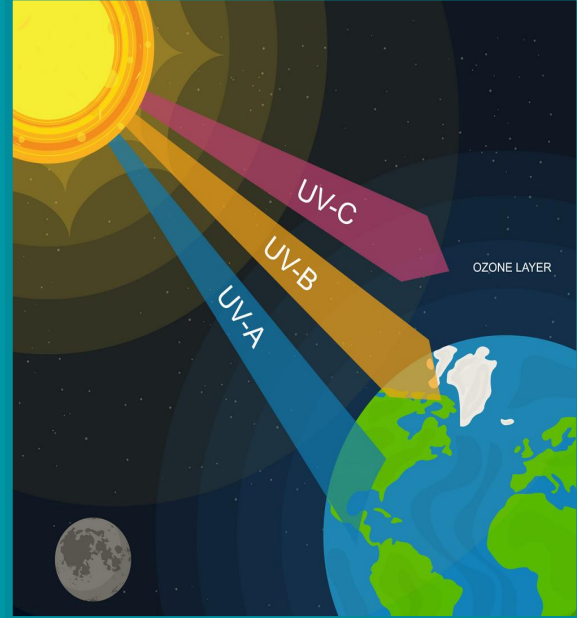
EXPLORING GRAVITY, CIRCUITS, AND
THE ELECTROMAGNETIC SPECTRUM

ACTIVITY

SO, WHAT IS LIGHT MADE OF?

So, what is light made of?

- Remember: Light is energy!
- Although we cannot see the sun's UV rays, they are present all around us.
- In this experiment, we will have the opportunity to “see” the light energy that surrounds us and experience how that energy can take different forms.

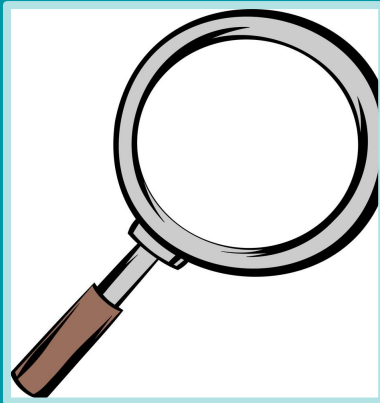


ACTIVITY

SO, WHAT IS LIGHT MADE OF?

So, what is light made of?

- For this experiment, you will need a magnifying glass, a leaf, and a cup of water!
- This activity should be completed with your teacher present, outside of the classroom on a hot and sunny day.

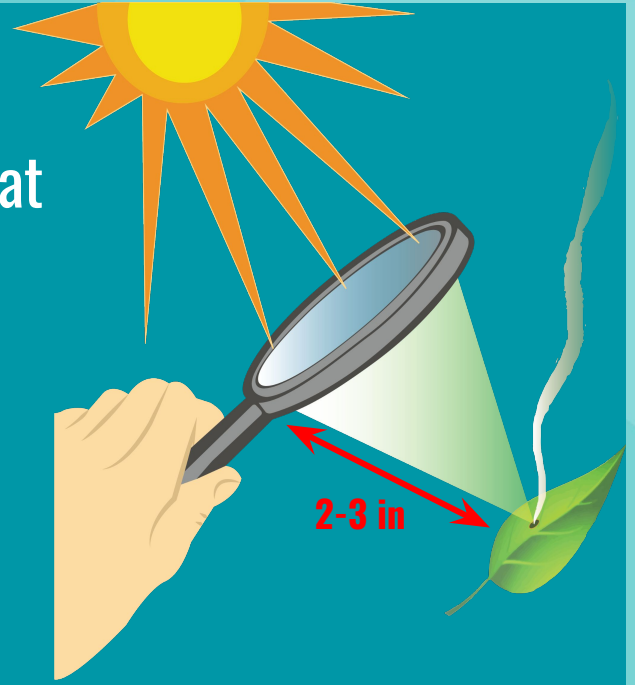


ACTIVITY

SO, WHAT IS LIGHT MADE OF?

So, what is light made of?

- First, discuss with your friends what you predict will happen?
- Then, with your magnifying glass and leaf, find a place outside that receives direct sunlight.
- Hold the magnifying glass a few inches away from the leaf, so you see a bright circular spot (on the leaf).



ACTIVITY

SO, WHAT IS LIGHT MADE OF?

So, what is light made of?

- Slowly move the magnifying glass away from the leaf so that the spot of light decreases in size but increases in intensity (brightness).
- Continue to hold the magnifying glass in the same position once you get the brightest spot to shine on the leaf.



ACTIVITY

SO, WHAT IS LIGHT MADE OF?

So, what is light made of?

- After a few seconds of holding the magnifying glass steady, you will begin to see smoke coming from the spot of light on the leaf!
- Smoke indicates that the leaf has caught fire!

Remember: Immediately extinguish the fire by pouring the cup of water over the leaf.

