

# Answer Key

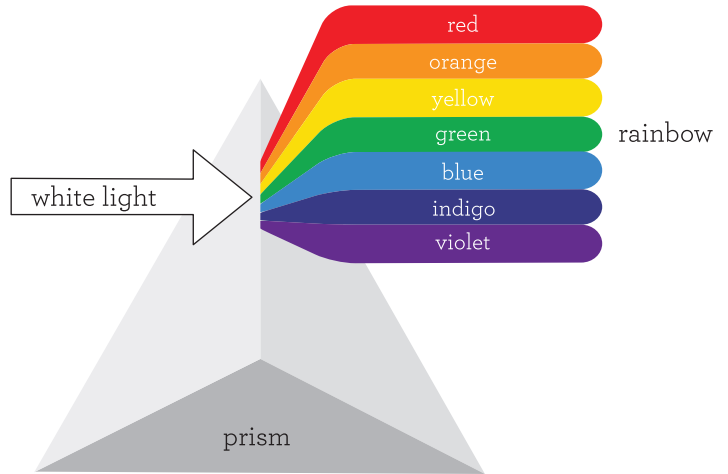
## WHY AND HOW

# Why is the sky blue?

To understand why the sky is blue, we must first understand the physics of light and color.

The light from the sun seems white to us, but white light is actually made up of all the colors of the spectrum: red, orange, yellow, green, blue, indigo and violet!

We see objects in color because those objects absorb some of the colors in white light, and reflect the colors that we see! For example, grass reflects the color green and absorbs all the other colors.



### QUESTION & ANSWER:

What colors make up the white light of the sun?

It is made up of all the colors of the spectrum like red, orange, yellow, green, blue, indigo and violet.

If you see a blue car, what color/s does it reflect?

The blue car reflects the color blue.

If you see a red apple, what color/s does it absorb?

The red apple would absorb all the colors of the spectrum except the color red.

The sky is blue because it has to travel through Earth's atmosphere, where there are lots of gases that absorb red, orange and yellow colors. Then, the blue light gets scattered all across the sky, which is what we see when we look into the sky.

