

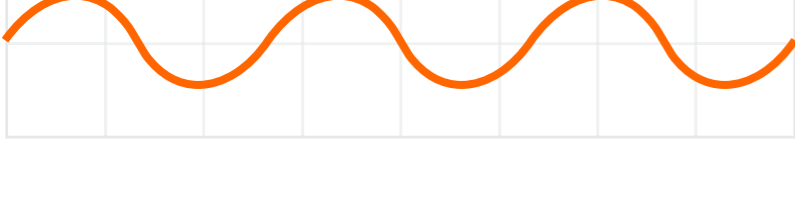
WHAT IS LIGHT?

How many of these facts do you remember from school? Check your knowledge!



QUESTION #1

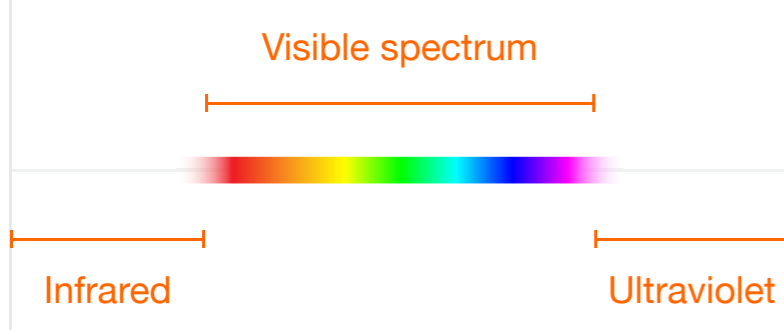
WHAT IS THE DEFINITION OF LIGHT?



→ Light is what's called an electromagnetic wave. It is a form of radiation.

QUESTION #2

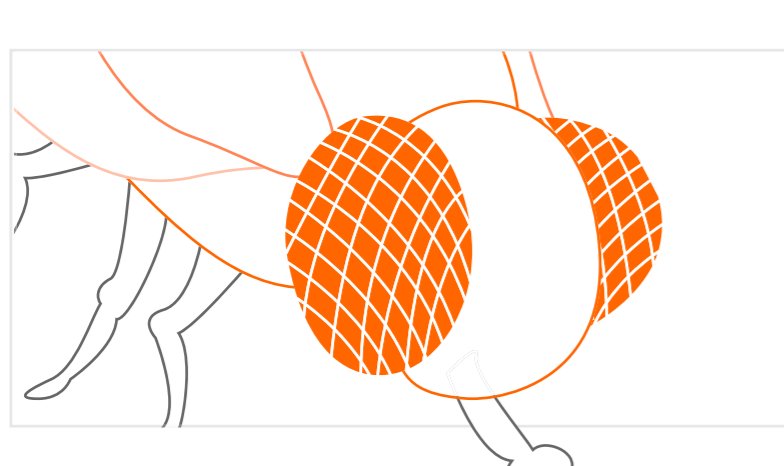
WHAT DO WE MEAN BY VISIBLE LIGHT?



→ Visible light is the part of the larger spectrum of electromagnetic radiation that the naked human eye can detect. It is the light we normally talk about in everyday life.

QUESTION #3

TRUE OR FALSE? ANIMALS CAN SEE LIGHT THAT HUMANS CANNOT.



→ True! Some insects can see ultraviolet light, whilst snakes can see infrared.

QUESTION #4

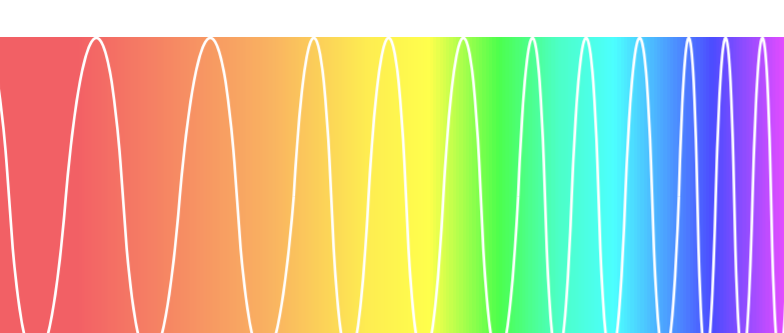
HOW MANY COLORS MAKE UP THE VISIBLE SPECTRUM?



→ Seven. The colors of the rainbow. Combined together, they create white light.

QUESTION #5

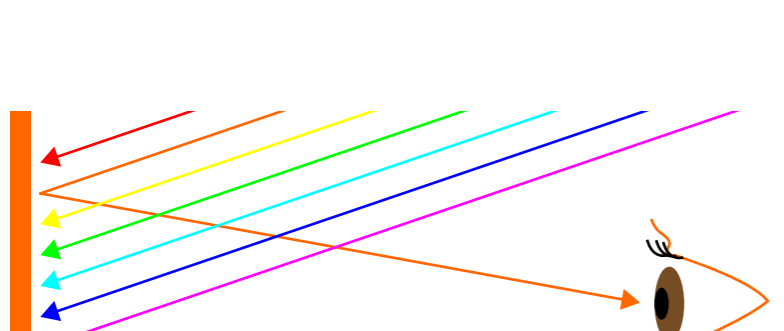
WHY DO DIFFERENT COLORS EXIST?



→ The light waves that we can see have different wavelengths. Red light has the longest wavelength, violet light has the shortest.

QUESTION #6

WHY DO WE SEE COLORS?



→ When light hits a surface, some of the light is absorbed and the rest is reflected. The wavelength of the reflected light determines the color we perceive.

QUESTION #7

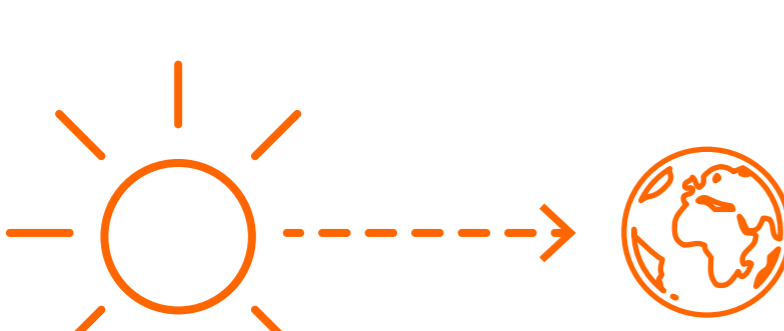
TRUE OR FALSE? NOTHING TRAVELS FASTER THAN LIGHT ENERGY.



→ True! Light travels at about 186,000 miles per second. This is almost nine million times the speed of a cheetah.

QUESTION #8

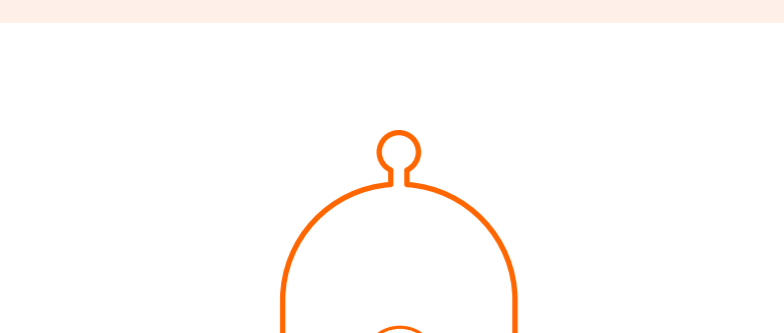
HOW LONG DOES IT TAKE SUNLIGHT TO TRAVEL FROM THE SUN TO THE EARTH?



→ 8 minutes 20 seconds (on average).

QUESTION #9

TRUE OR FALSE? LIGHT CAN TRAVEL THROUGH A VACUUM.



→ True! Sound waves however cannot.

QUESTION #10

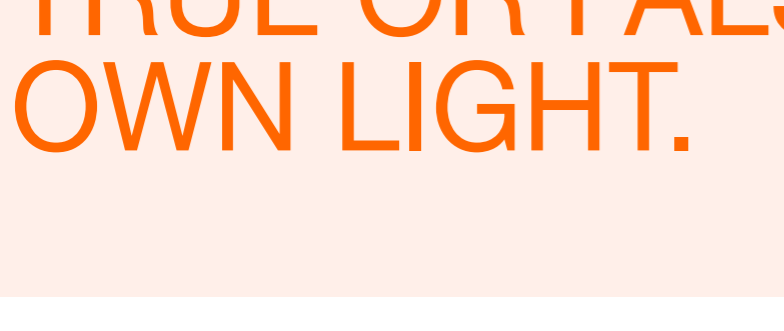
WHAT IS REFRACTION?



→ Refraction is the bending of light as it passes into a medium where it travels more slowly, for example water.

QUESTION #11

TRUE OR FALSE? THE MOON MAKES ITS OWN LIGHT.



→ False! The moon reflects light from the sun. The perceived brightness of the moon depends on where the moon is in its orbit around the Earth.

QUESTION #12

HOW IS LIGHT INVOLVED IN PHOTOSYNTHESIS?



→ Plants use energy from sunlight to convert carbon dioxide into food.

QUESTION #13

WHAT IS THE STUDY OF THE BEHAVIOR AND PROPERTIES OF LIGHT KNOWN AS?



→ It is a branch of physics known as optics.