

Q1

Station 1

This is when light rays bounce off the surface of an object-

- A) reflection
- B) refraction
- C) lens
- D) prism

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Q2

Station 1

Which is the term for the bending of light rays as they pass from one substance to another?

- E) reflection
- F) refraction
- G) mirror
- H) lens

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Q3

Station 1

This means to pass through a substance or object without being absorbed-

- J) refraction
- K) mirror
- L) reflection
- M) transmit

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Q4

Station 1

Which is a very smooth surface able to clearly reflect light to form a virtual image?

- N) lens
- O) refraction
- P) mirror
- Q) reflection

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Q1

Station 2

Which of the following best demonstrates the refraction of light?

- A) Looking through a glass window.
- B) Looking at something at the bottom of a swimming pool.
- C) Looking at a star in the night sky.
- D) Looking at an image on a silver spoon.

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Q2

Station 2

Which of the following best demonstrates the reflection of light?

- A) Looking at something at the bottom of a pool.
- B) Looking at a star in the night sky.
- C) Looking at the moon at night.
- D) Looking through a glass window.

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Q3

Station 2

Which of the following best demonstrates light being absorbed?

- A) a person seeing themselves in the clear surface of water
- B) a prism that bends light
- C) black cement heating up on a hot day
- D) looking out a window on a summer day

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Q4

Station 2

Which of the following best demonstrates light being transmitted?

- A) a person seeing themselves in a mirror
- B) a fish appearing to be in a different location than they really are from the surface of the water
- C) black cement heating up on a hot day
- D) looking out a window on a summer day

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Q1

Station 3

Which of the following uses light energy and can be found in eyeglasses, peepholes, cameras, and binoculars?

- A) a prism
- B) a mirror
- C) a lens
- D) a circuit

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Q2

Station 3

Which of the following instruments uses mirrors and lenses to see objects that are far away?

- A) telescope
- B) magnifying glass
- C) microscope
- D) mirror

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Q3

Station 3

Why do objects look different under water?

- A) the light rays stop
- B) the light rays refract
- C) the light rays reflect
- D) the light rays are all absorbed

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Q4

Station 3

Which of these objects would mostly likely reflect the most light?

- A) paper
- B) wood
- C) aluminum foil
- D) dark brown carpet

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Q1

Station 4

When a pencil is placed in a cup of water, it appears to be broken. What causes the pencil to look broken?

- A) the light bounces off when it moves from air to water
- B) the light bends when it moves from air to water
- C) the light stops when it hits the water
- D) the pencil is broken when placed in water



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Q2

Station 4

Which object helps people understand what makes up white light?

- E) microscope
- F) window
- G) prism
- H) mirror

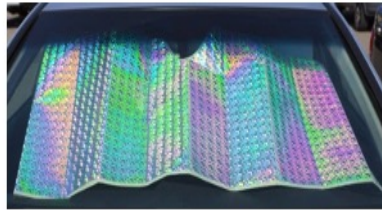
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Q3

Station 4

A shiny aluminum screen can be placed on the windshield of a parked car, like shown below. This screen helps to keep the car cool because it-

- A) refracts the sunlight
- B) causes condensation
- C) absorbs heat
- D) reflects the sunlight



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Q4

Station 4

Which of the following objects would reflect light rather than refract light?

- E) mirror
- F) hand lens
- G) microscope
- H) prism

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Q1

Station 5

The picture below shows a man shining a flashlight into the sky. What does the picture demonstrate about light?

- E) Light travels in straight lines.
- F) Light that goes through air cannot travel in a straight line
- G) Light travels in a circular path.
- H) Light doesn't refract or reflect.



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Q2

Station 5

Pablo places a sheet of black paper on a table on his back porch. What happens to most of the light when it strikes the black paper?

- E) The light passes through the paper.
- F) The light is absorbed by the paper.
- G) The light reflects off the paper.
- H) The light is bent by the paper.

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Q3

Station 5

The picture shows a swan in a lake. Which statement about light is supported by this picture?

- J) Light travels in straight lines until it goes into another medium like water.
- K) Light can refract in air and clear water.
- L) The water in the lake is blue because light forms an image.
- M) Light is reflected off the smooth surface of the lake.



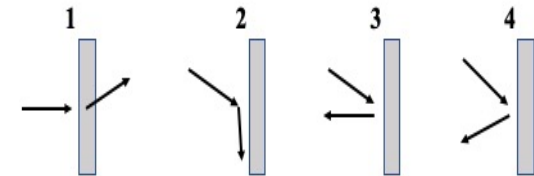
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Q4

Station 5

Which diagram shows what will happen if someone shines a flashlight at a mirror?

- P) Diagram 1
- Q) Diagram 2
- R) Diagram 3
- S) Diagram 4



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