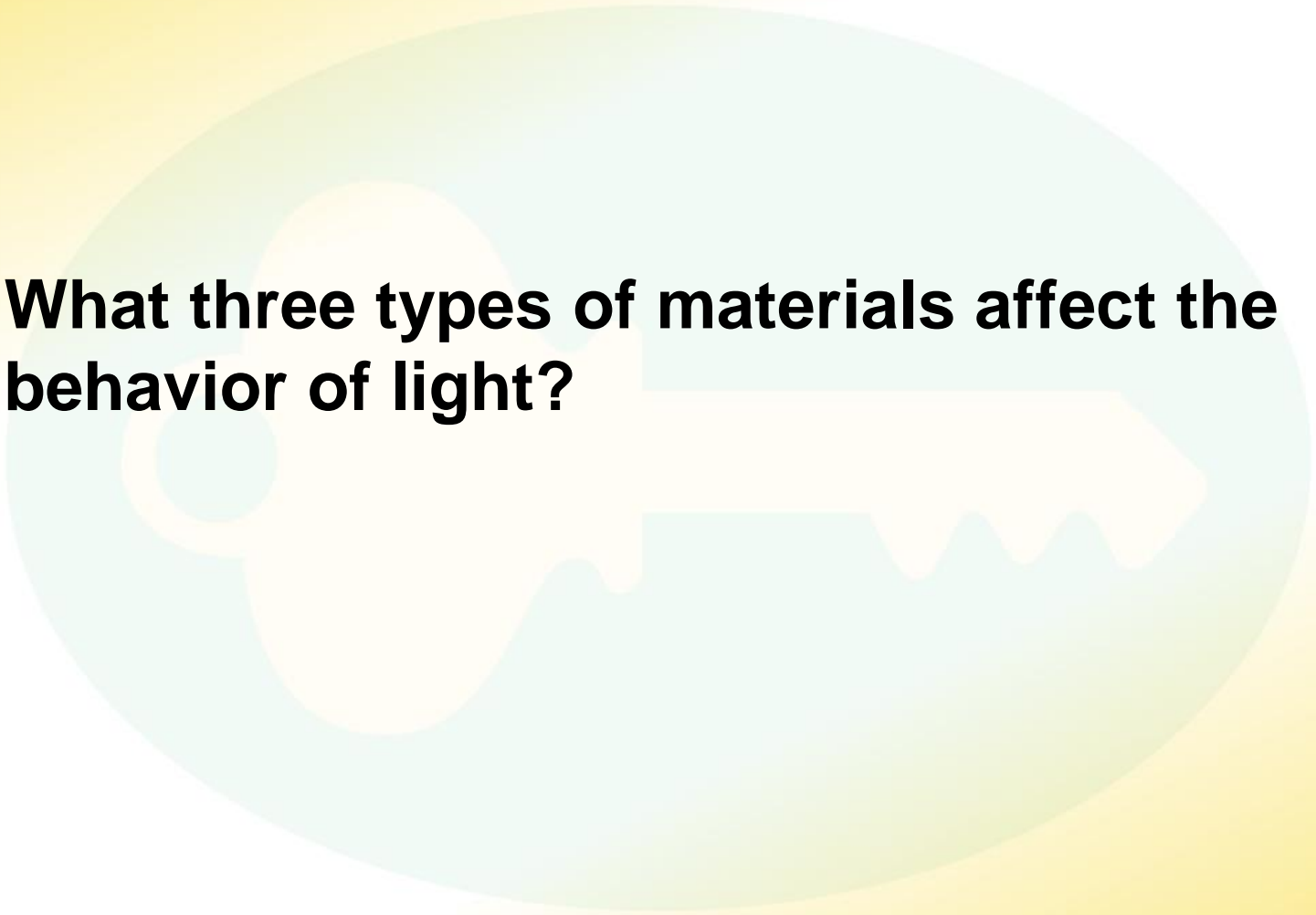


Light and Materials



What three types of materials affect the behavior of light?



Light and Materials

A **transparent** material transmits light, which means it-

The water –

DOK Question

Hypothesize why this is important.

Light and Materials

A translucent –

DOK Question

Hypothesize why this is important.

Light and Materials

An **opaque** –

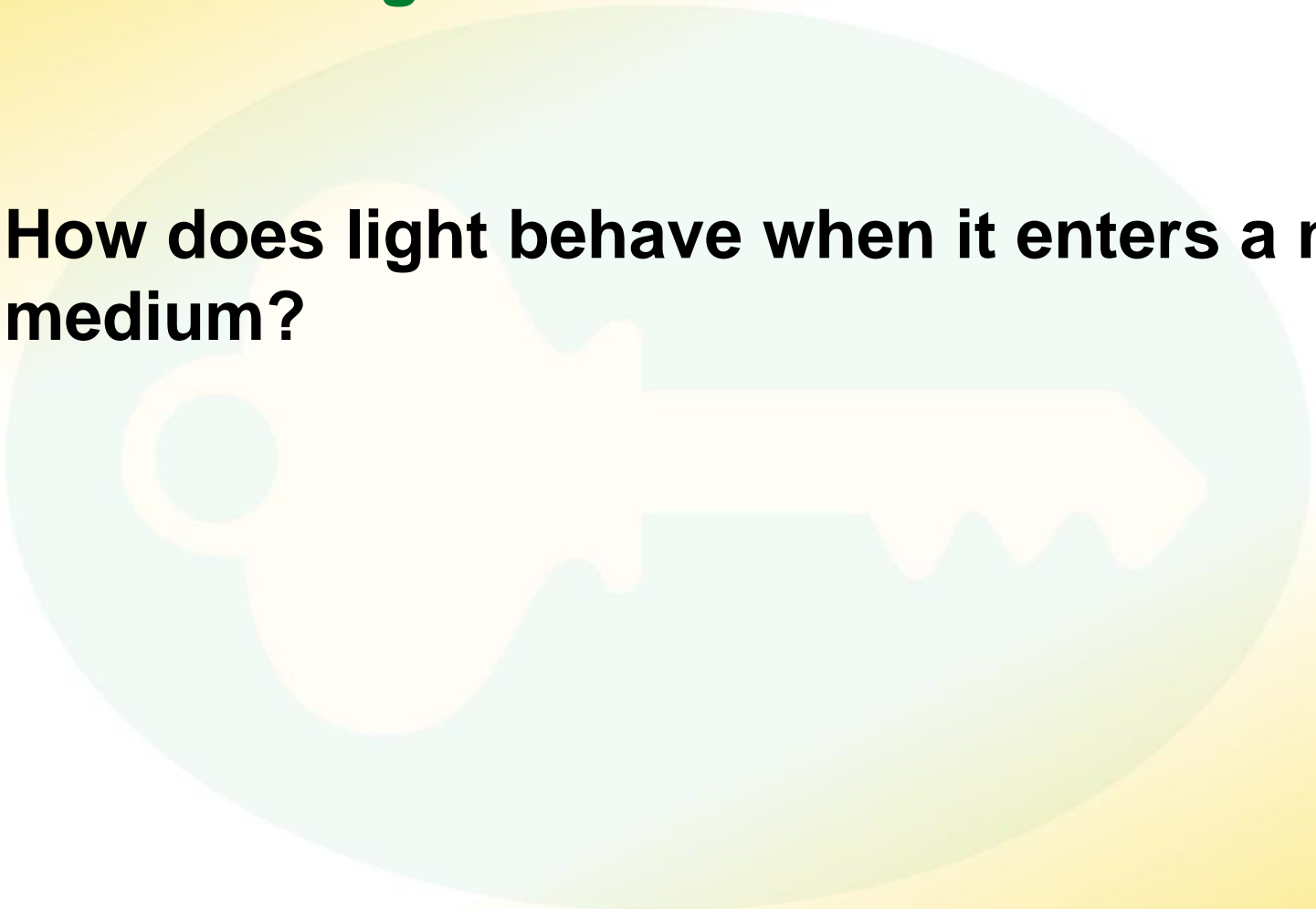
DOK Question

Hypothesize why this is important.

Interactions of Light



How does light behave when it enters a new medium?



Interactions of Light

Reflection

An **image** is-

Regular reflection-

Diffuse reflection-

Interactions of Light

Refraction

A light wave can -

Interactions of Light

Refraction -

- Mirages -
- Refraction causes -
- Light that reaches -

Interactions of Light

Polarization

Light with -

Interactions of Light

Scattering

In scattering -

Interactions of Light

A scattering effect –

DOK Question

Hypothesize why this is important.



Assessment Questions

1. How do polarized sunglasses reduce glare?
 - a. by scattering light as it passes through the glasses
 - b. by providing a smooth surface that light can reflect off
 - c. by absorbing all light
 - d. by blocking horizontally polarized light

Assessment Questions

1. An opaque material passes light through but scatters the light so that objects do not look clear.

True

False