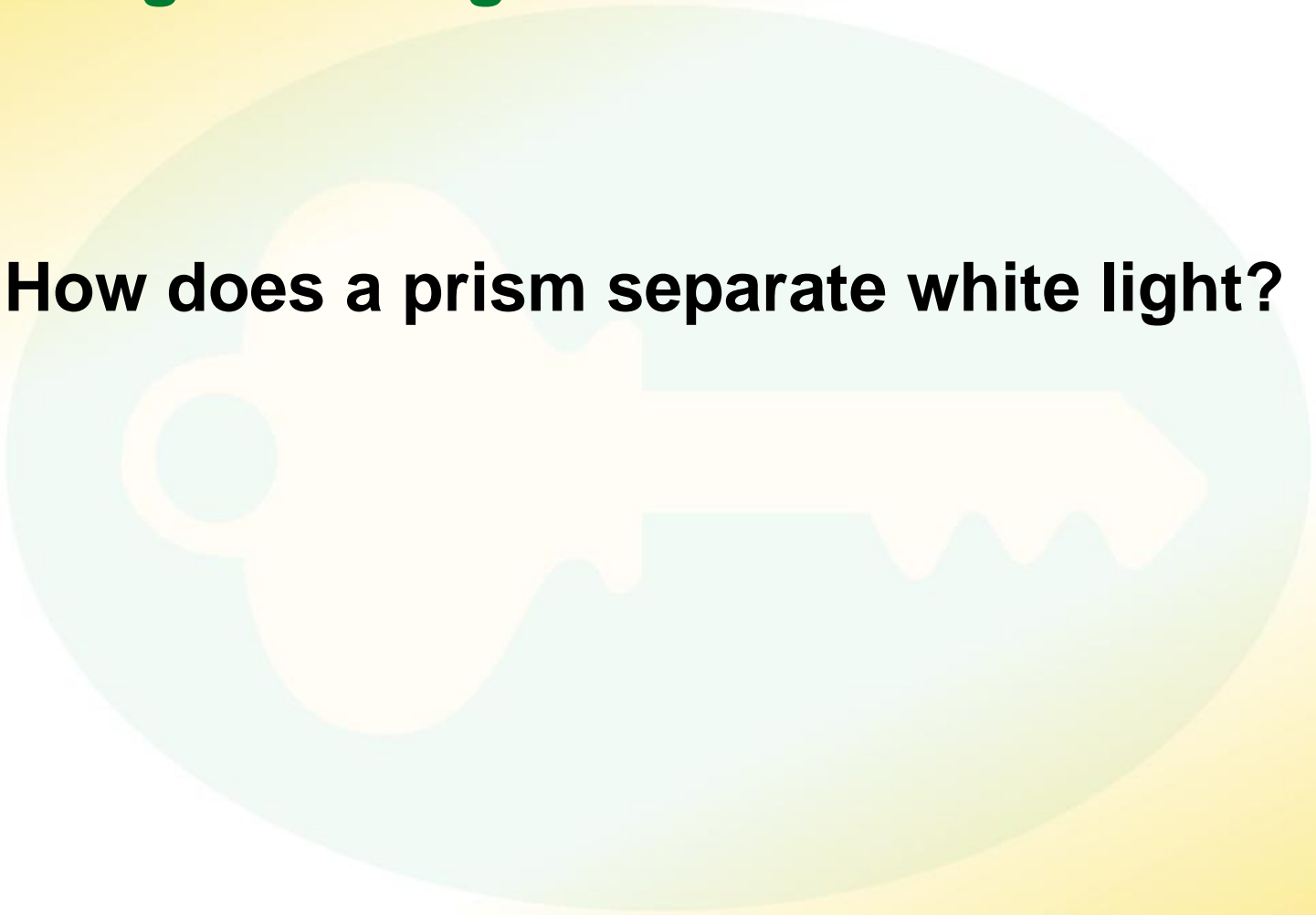


Separating White Light Into Colors



How does a prism separate white light?



Separating White Light Into Colors

The process in which white light separates-

When light –

It refracts –

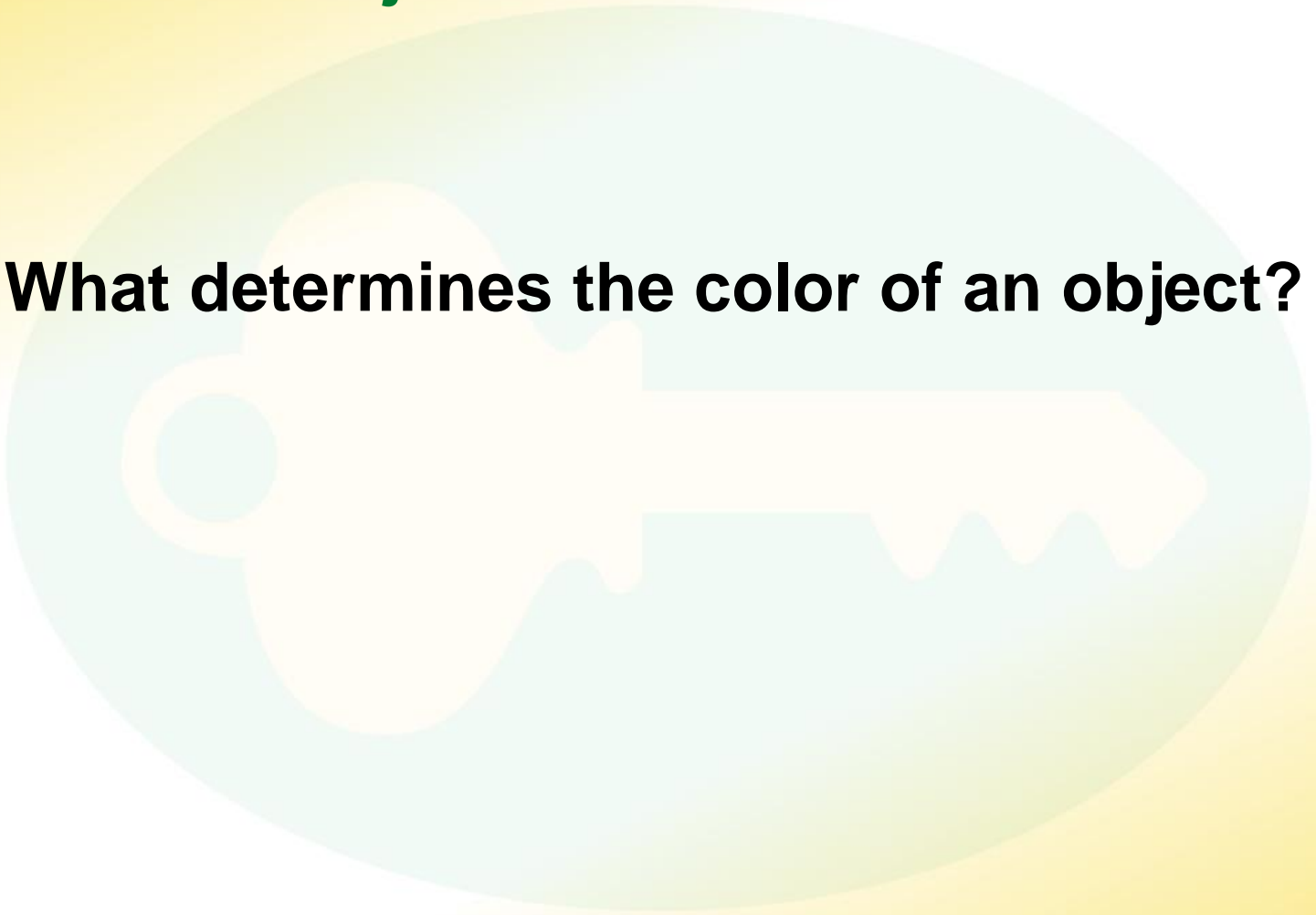
DOK Question

Formulate a visual model of dispersion.

The Colors of Objects



What determines the color of an object?



The Colors of Objects

What happens if you change the color of the light shining on an object?

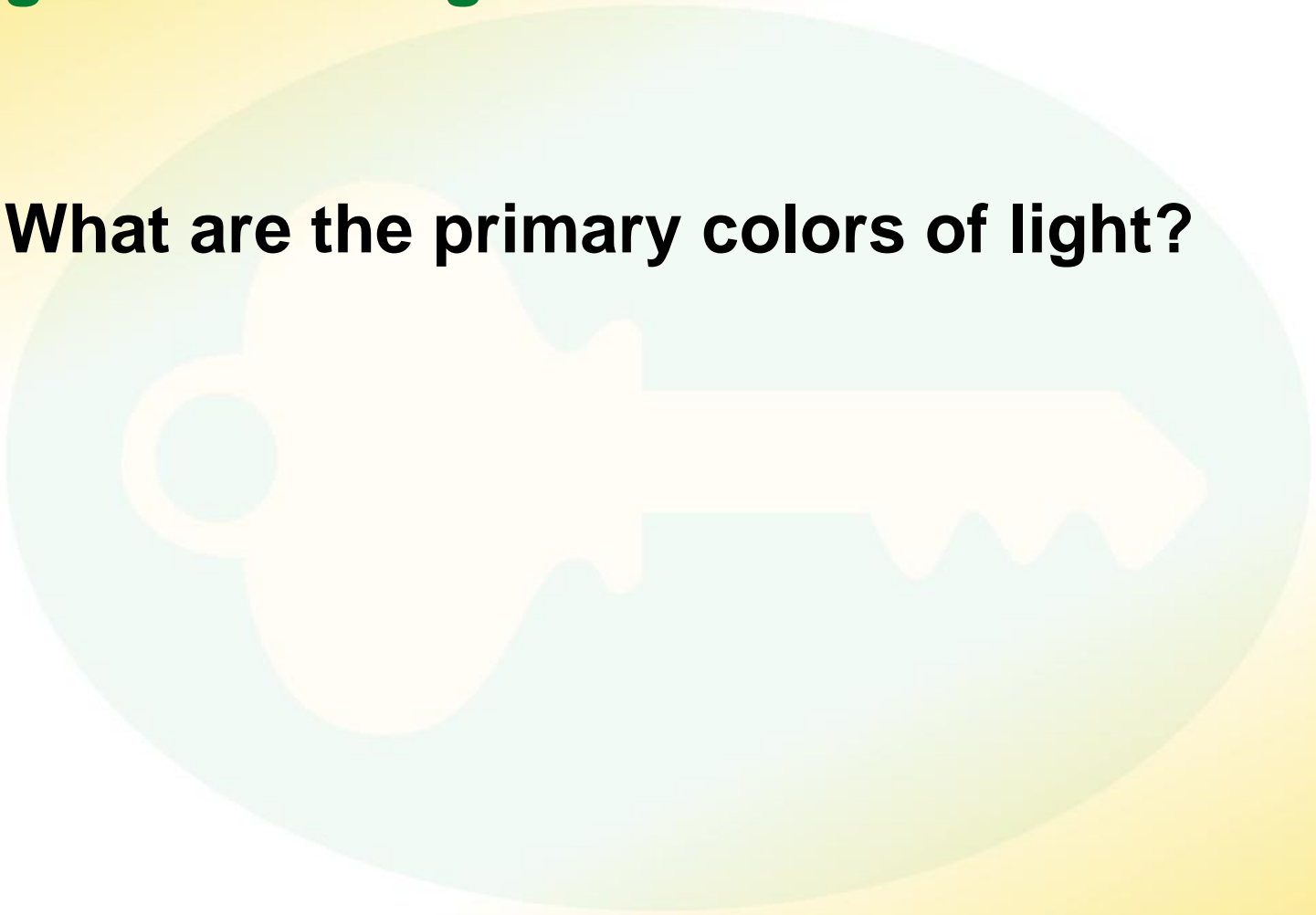
DOK Question

Hypothesize why this is.

Mixing Colors of Light

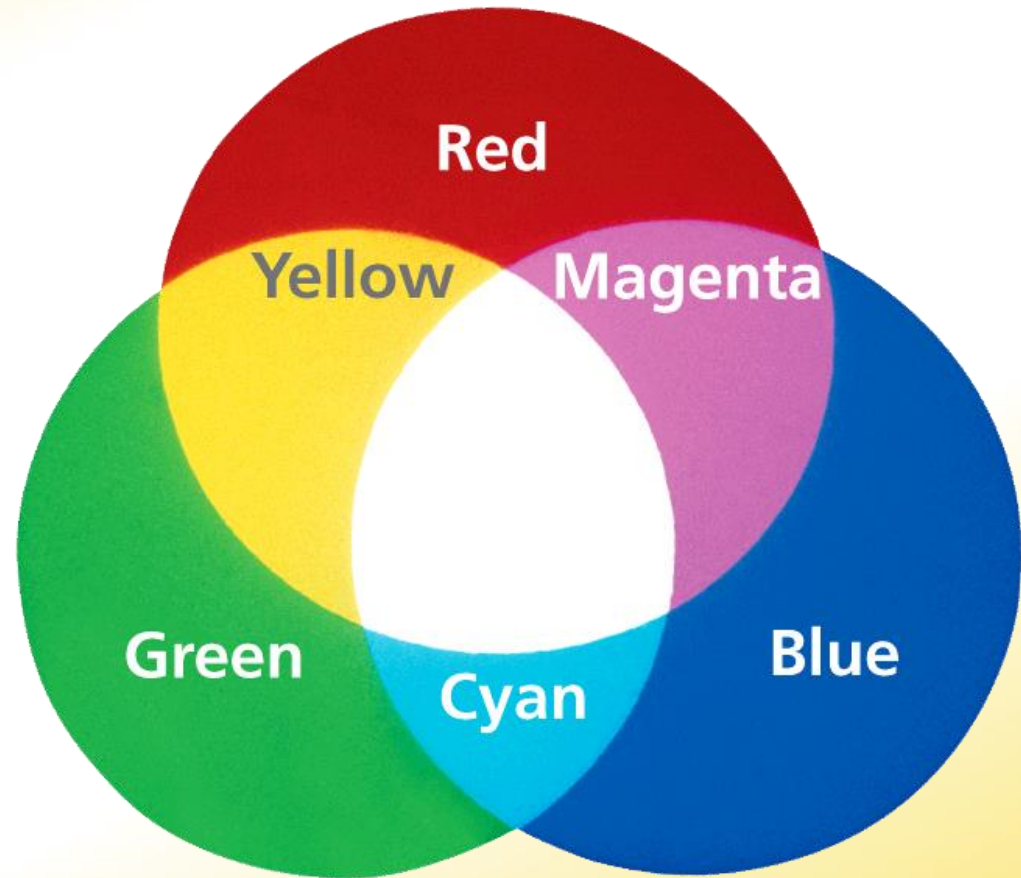


What are the primary colors of light?



Mixing Colors of Light

The three primary colors of light-



Mixing Pigments



What are the primary colors of pigments?

Mixing Pigments

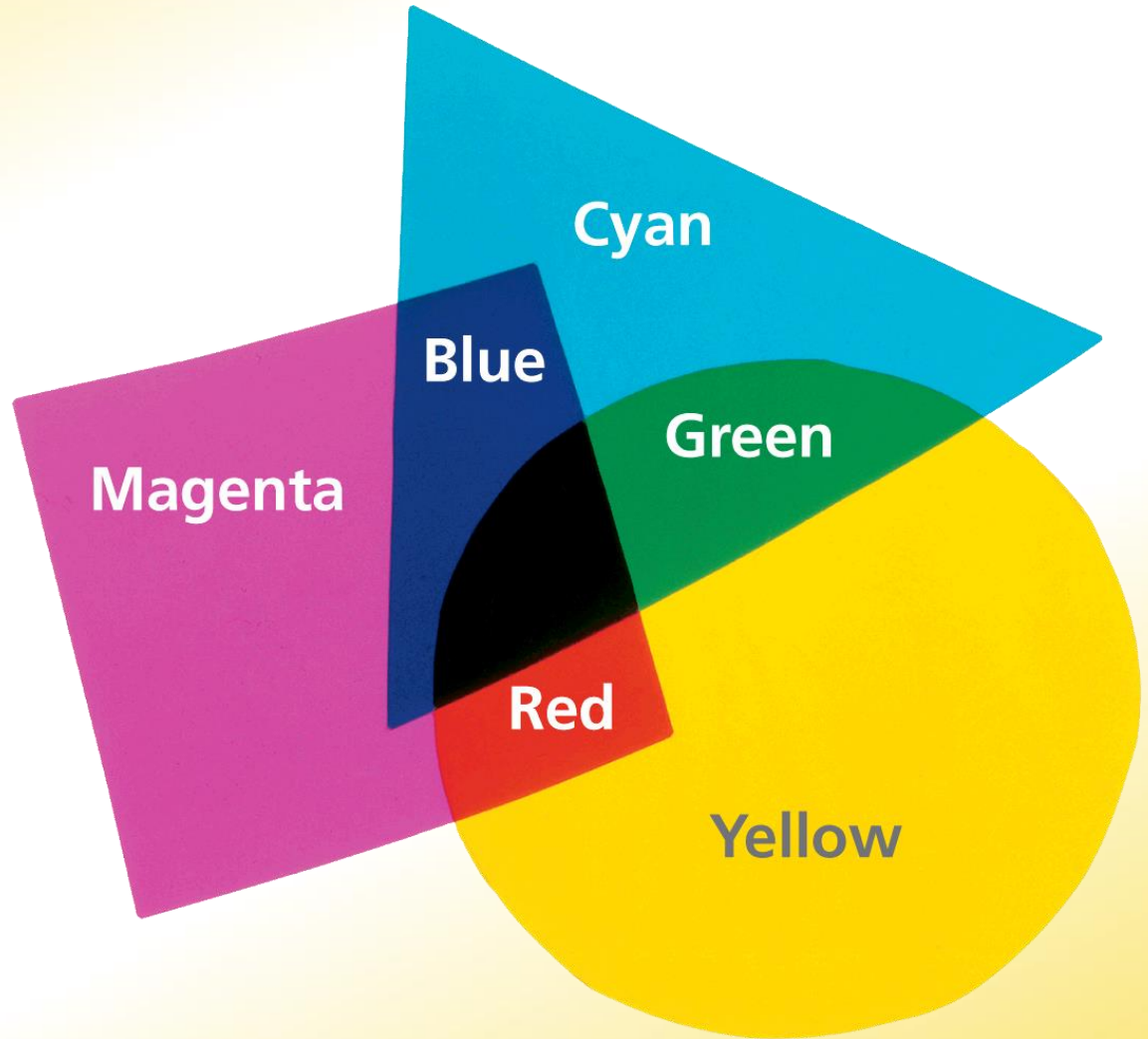
A **pigment** is-

- Paints-
- Color printers and photocopiers -
- You can mix varying amounts of these primary pigment colors -

Mixing Pigments

The three primary colors of pigments are –

DOK Question
Compare and Contrast
pigments and primary colors.



Assessment Questions

1. A prism separates white light into the visible spectrum because
 - a. longer wavelengths are absorbed more than shorter wavelengths.
 - b. shorter wavelengths refract more than longer wavelengths.
 - c. shorter wavelengths reflect more than longer wavelengths.
 - d. longer wavelengths experience more interference.

ANS: B

Assessment Questions

2. The color of an object depends on what the object is made of and on
 - a. the intensity of light that strikes the object.
 - b. the color of light that strikes the object.
 - c. the direction of the light that strikes the object.
 - d. the speed of the light that strikes the object.

Assessment Questions

3. Which of these colors is one of the primary colors of light?
- a. green
 - b. magenta
 - c. yellow
 - d. white