

**WHEN LIGHT STRIKES AN OBJECT TRANSPARENT MATERIALS**

* When light strikes an object, the light can be
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Materials can be classified as
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* This is based on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Transmits \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + Light passes right through \_\_\_\_\_\_\_\_\_\_\_ being \_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Examples = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**TRANSLUCENT MATERIALS OPAQUE MATERIALS**

\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_ all of the light that strikes it

* + \_\_\_\_\_\_\_\_\_\_\_\_ see through because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Example = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scatters \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + Usually \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ something behind object, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Example = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





**THE COLOR OF OBJECTS**

If you know \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can explain why \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Color of objects depends on
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**OPAQUE** **OBJECTS TRANSPARENT & TRANSLUCENT OBJECTS**

* Depends on wavelengths of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Every opaque object \_\_\_\_\_\_\_\_\_\_\_ some wavelengths of light and \_\_\_\_\_\_\_\_\_\_\_\_ others
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* Allow \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of light to pass through them
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ other colors
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**COMBINING COLORS**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ =** three colors that can combine to make any other color

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **=** two primary colors combined in equal amounts

**MIXING COLORS OF LIGHT**

Primary colors = **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* + When \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_, the 3 primary colors of light \_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + If mixed in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can produce other colors
    - Example = **\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
  + Secondary colors of light =
    - **\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**MIXING PIGMENTS**

**\_\_\_\_\_\_\_\_\_\_\_\_\_** = colored substances that are used to color other materials

* + \_\_\_\_\_\_\_\_\_ some color, but \_\_\_\_\_\_\_\_\_\_ others
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mixing pigments \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from mixing colors of light

* + **As pigments are \_\_\_\_\_\_\_ together, \_\_\_\_\_\_\_\_\_\_ of light are \_\_\_\_\_\_\_\_\_ and more are \_\_\_\_\_\_\_\_\_\_\_**
  + the more pigments combined, \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + **\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_** primary colors of pigments
  + Combine in equal amounts to produce **\_\_\_\_\_\_\_\_\_\_\_**
  + Can combine primary pigments in different amounts to get secondary colors of **\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_**