# REFRACTION

# What is REFRACTION?

... happens when light passes through an object of denser mass, such as water or glass. When this occurs, light is bent, and there is a distortion







You will be taking 12+ photographs of a glass still life while displaying a 4 DIFFERENT COLOR SCHEMES and the refraction technique.





#### **Materials:**

Glass or Glasses

**Poster Board** 

**Plexiglass** 

Completely dark room



#### **Process:**

- 1. Pick your color scheme- example monochromatic, complementary
- 2. Place your colors on a poster board
- 3. Grab some plexiglass- place close to the edge of the table.
- 4. Place you glass(es) with water in it on top



#### **Process:**

- 5. Make sure there is a gap between your backdrop/poster board for a light
  - You will need this light to light up your backdrop



The set up should look like something like this....





(When lights off...)









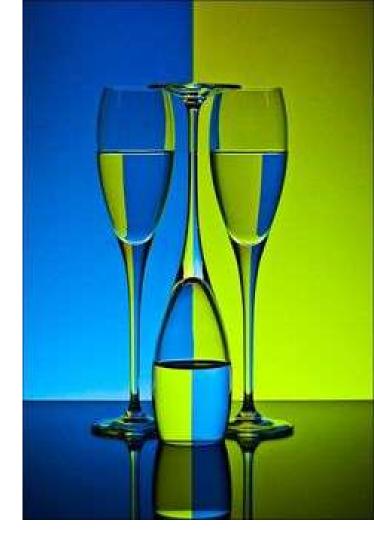
















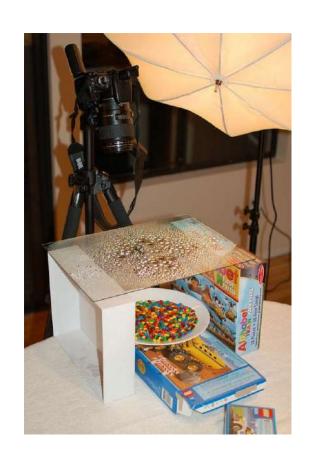






You will be taking 12+ photographs of macro droplets while displaying a 3 DIFFERENT COLOR SCHEMES AND PATTERNS.

Attention to DETAILS are important this project



#### **Materials Need:**

- Plexiglass/Acrylic
- Rain-X
- Water
- Dropper
- Lights
- Various Colorful Subjects
- A partner









#### **PROCESS:**

- HAVE YOUR <u>COLOR SCHEMES</u> picked out- easy to pick out subject(s)
- Place subject(s) in glass containers or create 'mini studio' (demo will be given)
- Place clear plexiglass/acrylic over top
- Begin to apply Rain-X (with a dropper) to the top of the acrylic→ THINK ABOUT YOUR LAYOUT OF DROPLETS! VARY THE SIZES



#### **PROCESS (Continued):**

- Balance your lighting appropriately→ have your partner hold the hand held lights on the sides
- Try and use a lower aperture and/or the Macro function on your camera for some photographs-- GET CLOSE TO THE DROPLETS!! MAKE SURE THEY ARE IN FOCUS AND NOT THE BACKGROUND
- You will see abstract reflections in the droplet





## **Additional Examples:**







## **Additional Examples:**







## **Additional Examples:**





## Will be graded on:

- 1. EFFORT/ Using class time wisely
- 2. Craftsmanship (neat and clean)
- 3. Correct use of the technique (various color schemes applied)
- 4. **Following Directions** (Refraction: 12+ images with 4 different color schemes, 6+ BEST edited images) (Refraction Droplet: 12+ images with 3 different color schemes/patterns, 3+ BEST edited images)
- 5. Correct use of the camera/ THOUGHTFUL editing



