



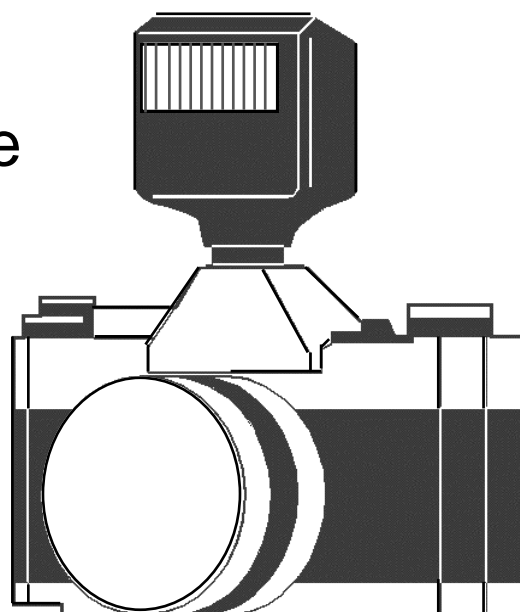
First Impressions

Procedure:

1. Always wear safety goggles.
2. Make sure the light is turned off.
The white metal and the light bulb are hot. Do Not Touch.
3. Take one piece of Sunprint[®] paper from the dark blue box. Close the box so that the remaining paper will not be exposed to light.
4. Place your paper, blue side up, in the white box under the lamp.
5. Place one or more objects on top of your paper. Try a metal object as well as a plastic object.
6. Point the light directly at your objects. Turn on the light to expose your paper.
Wait for 2-4 minutes. Do not move the paper or objects.
7. Turn off the light.
8. Carefully remove the objects, which may be hot. Rinse your paper for 10 seconds at the sink.

You may take your paper home.

How is Sunprint® paper like film used in cameras?



A Closer Look:



Photochemistry is the study of chemical reactions that use light. Light is made of particles called photons. By absorbing energy from photons, molecules or atoms are able to react more easily with other molecules.

In this experiment, chemicals in the paper react when exposed to light. No reaction occurs where opaque objects are placed on the paper and block the light. The light reactions stop when you rinse the paper with water.

Sunprint® paper can use sunlight or artificial light. Artificial light is used in the chemical processes to develop blueprints, photographs, and photocopier pages. In nature, sunlight is used in the process called photosynthesis, in which plants use energy from sunlight to produce carbohydrates (like starch and sugar) from carbon dioxide (CO₂) and water (H₂O).