

Part 2: Design Your Own Experiment with UV Radiation

For part 2, you will design your own experiment using the UV-sensitive paper to study substances that might protect against UV radiation. Your teacher will provide you with a list of materials you can use for your experiment.

For example, you could study the amount of UV radiation that is transmitted by sunscreens with different SPF numbers, different sunscreen brands, lotions, face makeup, lip balm, baby oil, sheer clothing, sunglasses (with and without UV protection), or plastic. If you decide to test sunscreens or lotions, consider placing the UV-sensitive paper inside a small sandwich bag and smearing the lotion on the outside of the bag. You can also try to smear it directly on the paper.

Safety Instructions



Wear safety goggles at all times.

In the lab, the household products should be treated as any other lab supply. Do not apply to skin, and keep out of eyes.

You must obtain permission from your teacher before conducting any procedures you write.

1. Begin by writing a question that your group wants to explore. What is the purpose of your experiment?
2. What variables will you control? List at least five variables.
3. Write a detailed materials list of what you will need to conduct your experiment.

