

Science Experiment: Why is the Sky Blue?

Thought Question: *Why is the sky blue?*

Materials:

- Measuring cup filled with 2 cups of water
- A clear glass
- Flashlight
- Tablespoon
- Milk
- Safety goggles
- Paper towels

Directions:

1. Put on your safety goggles and place a paper towel down on your work area in case the water spills.
2. Fill the empty glass halfway with water from the measuring cup.
3. Add one tablespoon of milk to the water in the glass.
4. Stir.
5. Shine the flashlight through the milky water* and watch as the water begins to turn blue.

*You may need to shine the flashlight up from the bottom of the glass to get the best results.

Conclusion: The sky looks blue, because the blue wavelength scatters faster than the other wavelengths in the atmosphere. At sunset, we see the red and orange sky, because the blue has already been scattered out throughout the day.