

Name \_\_\_\_\_



## Light Debate

**Directions:** Read the two scientific claims and their evidence. Decide which claim is better supported by the evidence.

A group of students wanted to find out how **colored light** affects plant growth. They grew bean plants under different light colors for three weeks. All plants received the same amount of water, soil, and daily light time.

**Claim A:** Plants grow tallest under **blue light**.

### Evidence for Claim A

- Five plants under blue light grew an average of 18 centimeters.
- Two of the five plants under blue light had bent stems.
- One student said blue light looked brighter than the other colors.

**Claim B:** Plants grow tallest under **red light**.

### Evidence for Claim B

- Five plants under red light grew an average of 25 centimeters.
- All five red light plants had strong, upright stems.
- The red light plants produced more leaves than the blue light plants.
- The same growing conditions were used for all plants.

### Evaluation Questions

1. Which claim is **better supported by evidence**, Claim A or Claim B?
2. Which two pieces of evidence best support your choice?
3. Which evidence is **weak or opinion-based**? Explain why.
4. What **additional data** would make the weaker claim stronger?