| When sorting in red light, I couldn't tell |
|---|
| When sorting in blue light, I couldn't tell |
| Why do you think you couldn't tell the difference between the color of objects in the red light and blue light? |
| |



Let There Be Light Journal 2

Scientist:

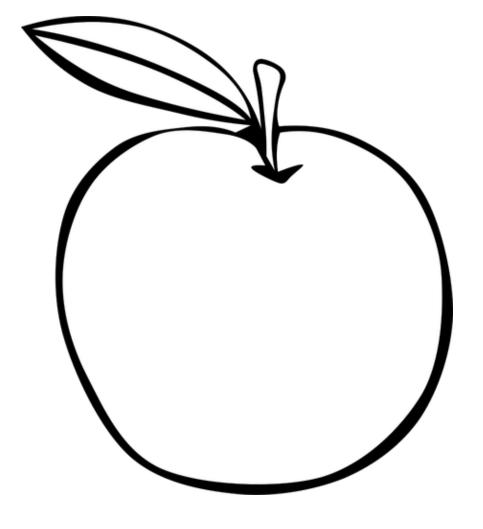


Designed by Danielle Van Derlaske and DaNel Hogan This journal is part of the Sciencing and Engineering Journals collection found here:

https://stemazing.org/stemazing-sciencing-and-engineering-journals/



Color the apple **red**, the leaf **green**, and the stem **brown**.



| I wonder why? I wonder if? I wonder what? I wonder how? I wonder what would happen if? |
|--|
| I wonder |
| |
| |
| I wonder |
| |
| I wonder |
| |
| I wonder |
| |

Objects Sorted in Blue Light

Prediction Actual

| I notice | | | |
|----------|--|------|---|
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| | | | • |
| I notice | | | |
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Apple in the Dark

Imagine you are sitting at a table with a **red** apple in front of you. Your friend closes the door and turns off all the lights. It is totally dark in the room. There are no windows in the room or cracks around the door. No light can enter the room.

Circle the statement you believe best describes how you would see the apple in the dark:

- A. You will not see the **red** apple, regardless of how long you are in the room.
- B. You will see the **red** apple after your eyes have had time to adjust to the darkness.
- C. You will see the apple after your eyes have had time to adjust to the darkness, but you will not see the red color.

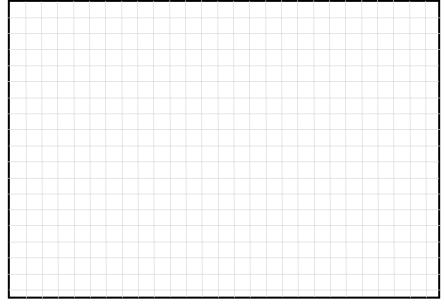
Describe your thinking. Provide an explanation

| for your ans | swer. | | |
|--------------|-------|------|--|
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| | | | |
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Reference: Formative assessment probe from Page Keeley's *Uncovering Student Ideas* books found

Part 1: Color Addition

Objects Sorted in **Red** Light



| i notice | | | |
|----------|--|------|----------------|
| | | | |
| I notice | | | ·············· |
| | | | |
| | | | |

| I wonder why? I wonder if? I wonder what? I wonder how? I wonder what would happen if? | ı |
|--|-------|
| I wonder | |
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| | : |
| I wonder | |
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| I wonder | |
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| I wonder | |
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