Plant Growth Virtual Lab (2)

“How does color affect growth?”

**Introduction:**

Plants require sunlight to grow. Sunlight is the natural energy source for photosynthesis. Light energy from the sun contains a mixture of colors: red, orange, yellow, green, blue, and violet. In this lab you will investigate how these individuals plant colors affect growth.

**Directions.**

Go to:

<http://www.glencoe.com/sites/common_assets/science/virtual_labs/LS12/LS12.html>

Select 1 plant type to use:

* Lettuce, radish, or spinach

Grow the plant for all colors.

Record height of three plants into your data table. (drag ruler on bottom of plants to measure.)

Average the height for the three plants

\*Click reset to grow plants under a new color of light. \*

**Questions**

1. Make a hypothesis on what wavelength of light will cause the most plant growth.
2. What are the independent and dependent variables in the virtual lab?
3. What are some controls for the virtual lab?
4. Which wavelength of light produced the most plant growth?
5. Which wavelength of light produced the least plant growth?
6. Create a data table showing plant growth for each plant.

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| Plant tested: |
| Color of Light | Plant height 1 | Plant height 2 | Plant height 3 | Average Height |
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1. Compare your data to another plant tested. How does your data compare?
2. Answer the guiding question in 1 paragraph. “How does the color of light affect plant growth?”
3. What question would you ask for more information? What would your next experiment be?