NAME _____ DATE _____ CLASS _____

Section 14-4

HOLT PHYSICS

Concept Review

Color and Polarization

1. It is common knowledge that chlorophyll allows green plants to use light for photosynthesis.

a. Which colors of the visible spectrum do green plants absorb? Explain.

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_____

b. A window has just broken in your greenhouse. Until it can be replaced, you can seal the hole with clear plastic that is slightly tinted either red or green. Which would you use? Explain.

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2. You have three spotlights: one red, one green, one blue. You also have three buckets: one with red paint, one with green paint, one with blue paint.

a. What color do you see when you shine all three spotlights on a white wall in a dark room?

_____

b. What color do you see if you paint the wall blue before shining all three spotlights on it in a dark room?

_____

c. What color do you see when you paint the wall with a brush dipped in the red and blue buckets and then shine green light on it?

_____

d. What color do you see when you paint the wall with a brush dipped in all three buckets and then shine all three spotlights on it?

_____

3. What color do you see when shining green light on a magenta painting?

_____

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