

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Bill

## Nye the Science Guy Light & Color

1. \_\_\_\_\_ light is a mixture of all the colours of the rainbow.
2. When white light passes through a prism it breaks up into all the \_\_\_\_\_, called the \_\_\_\_\_ of colours.
3. The orange fruit looks orange because it \_\_\_\_\_ the colour orange and \_\_\_\_\_ all the other colours.
4. When light is absorbed, it is changed to \_\_\_\_\_.
5. Mixing all colours of light makes \_\_\_\_\_ light; mixing all colours of paint results in a \_\_\_\_\_ color.
6. Neon lights are filled with neon gas, which is then excited by high voltage \_\_\_\_\_ and becomes colourful.
7. Red absorbs all colours of light, except \_\_\_\_\_.
8. The colour \_\_\_\_\_ absorbs most of the heat from the sun and reflects very little; wearing \_\_\_\_\_ allows you to stay cool because the clothes will reflect most of the light.
9. Red light is made of \_\_\_\_\_ and \_\_\_\_\_ waves; blue light is \_\_\_\_\_ and \_\_\_\_\_ waves.

10. Why is the sky blue?

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11. Why does water look blue on a sunny day?

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