

## WHY WHITE IS WHITE & BLACK IS BLACK

Is an apple red in the dark? Is the coin on the bottom of the pool right where it appears to be? Can everyone see a whole rainbow? Color is a fascinating feature of light. A rainbow may be the most spectacular display of light's colors, but everyday objects and events remind us of the miracles of light and color. Here's a chance for you to show what you understand about some of the behaviors of light and color.

1. Explain why an apple is red.	2. Explain how a can of paint gets its color.	3. Explain why something appears black.
4. Explain why something appears white.	5. Explain how a prism reflects colors.	6. Explain how a rainbow is made.
7. Explain why, when you dive for a coin at the bottom of a swimming pool, the coin is not exactly where it appeared to be.	8. Explain why the sky is blue.	9. Explain how a red sunset is formed.



\*10. Explain why some people insist a rainbow has an indigo band and others say it doesn't.

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*\* Extra challenging!*

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