

# All About Light

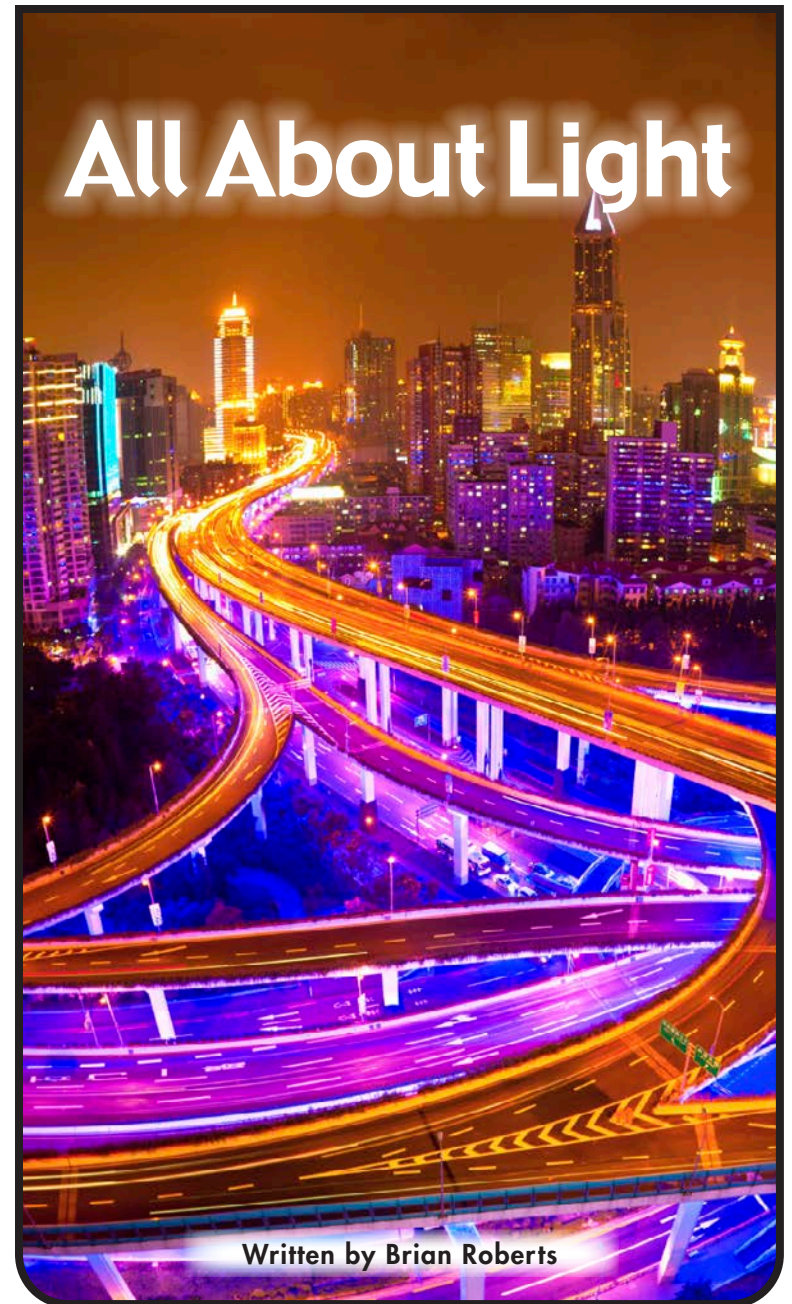
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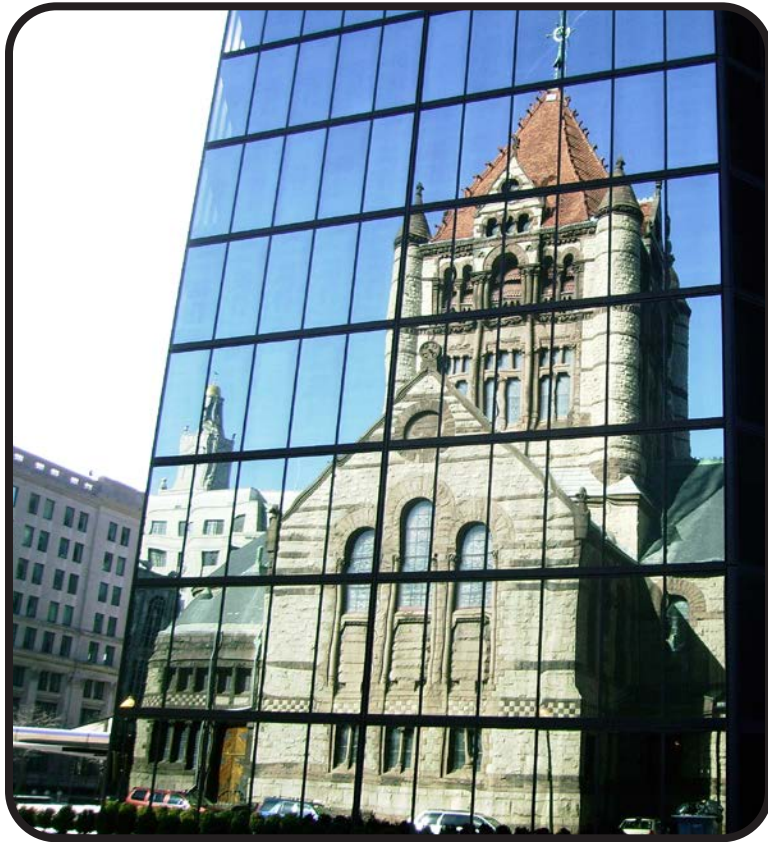
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Written by Brian Roberts

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## KEY ELEMENTS USED IN THIS BOOK

**The Big Idea:** Light is a form of electromagnetic energy that allows us to see, which provides us with information about our surroundings. Light comes from many sources and moves in predictable ways as it interacts with objects. Understanding the physical properties of light helps us anticipate how light will behave as we use it and interact with it. Light produces colors and shadows, adding to the beauty and complexity of the world around us. It also keeps our planet warm enough for life to survive and flourish.

**Key words:** block, color, dark, dull, eyes, light, mirror, see, shadow, shiny

**Key comprehension skill:** Identify facts

*Other suitable comprehension skills:* Compare and contrast; cause and effect; classify information; elements of a genre; interpret graphs, charts, and diagrams

**Key reading strategy:** Visualize

*Other suitable reading strategies:* Ask and answer questions; connect to prior knowledge; summarize; retell

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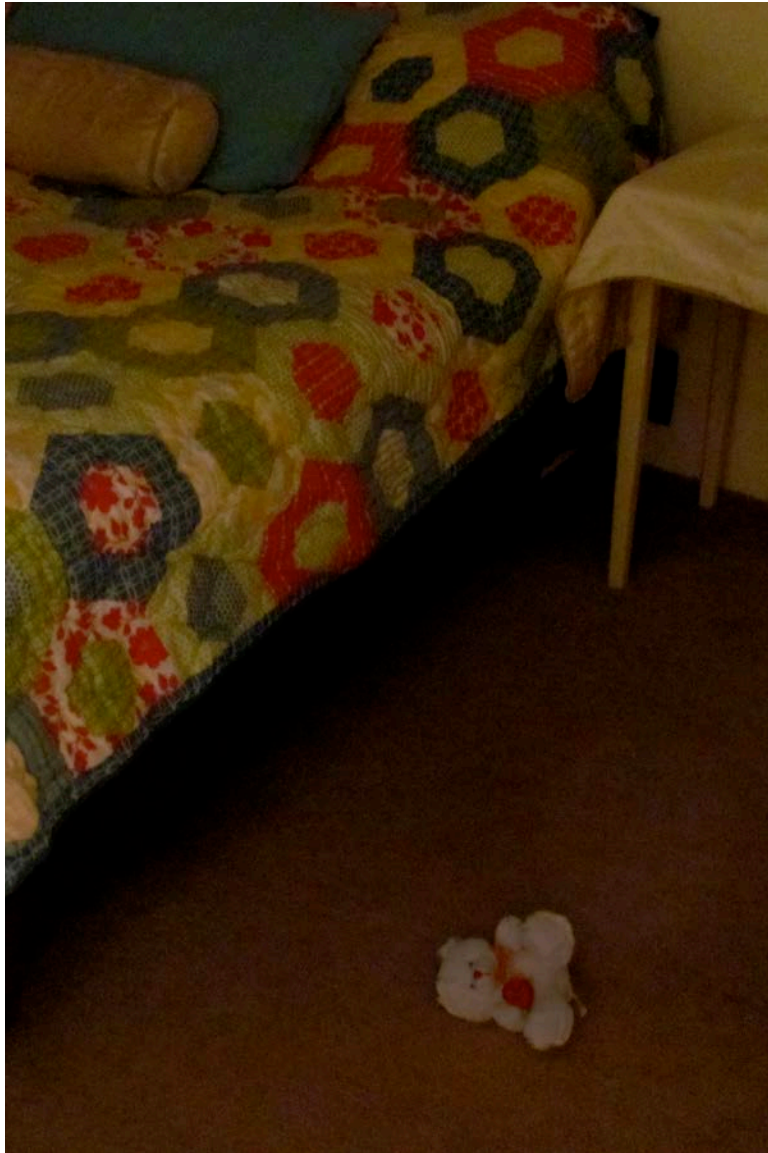
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Why is this room dark?  
There is not much light!

3



Turn on the lights. Now you  
can see the room.

4



You can't touch light.  
But light lets you see.

5



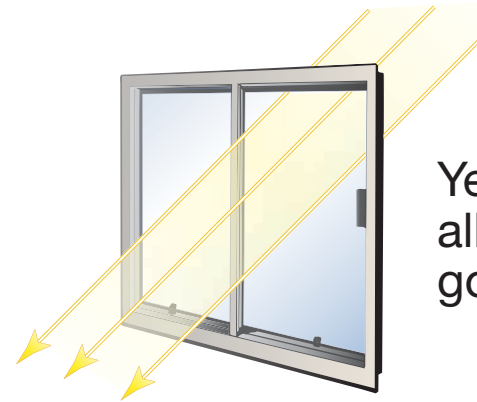
All of these things  
give you light.

6



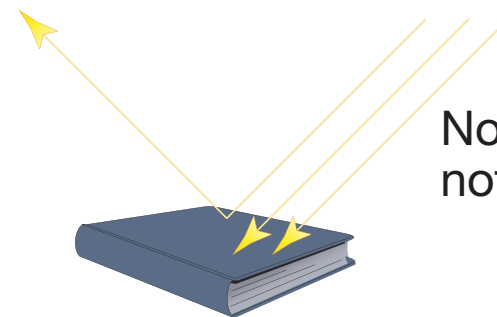
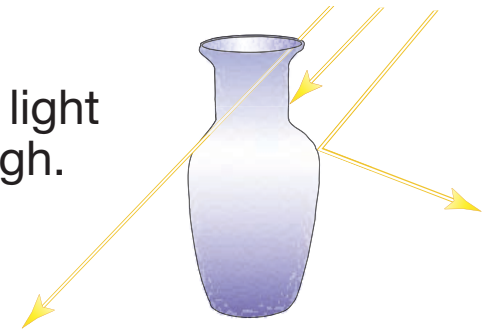
Most things do not make light. You only see them if light hits them.

Will light go through these things?



Yes! Almost all the light goes through.

Yes! Some light goes through.



No! Light does not go through.



Mirrors send a lot of light to your eyes. Mirrors look shiny.



These things hold on to the light that hits them. They look dull.



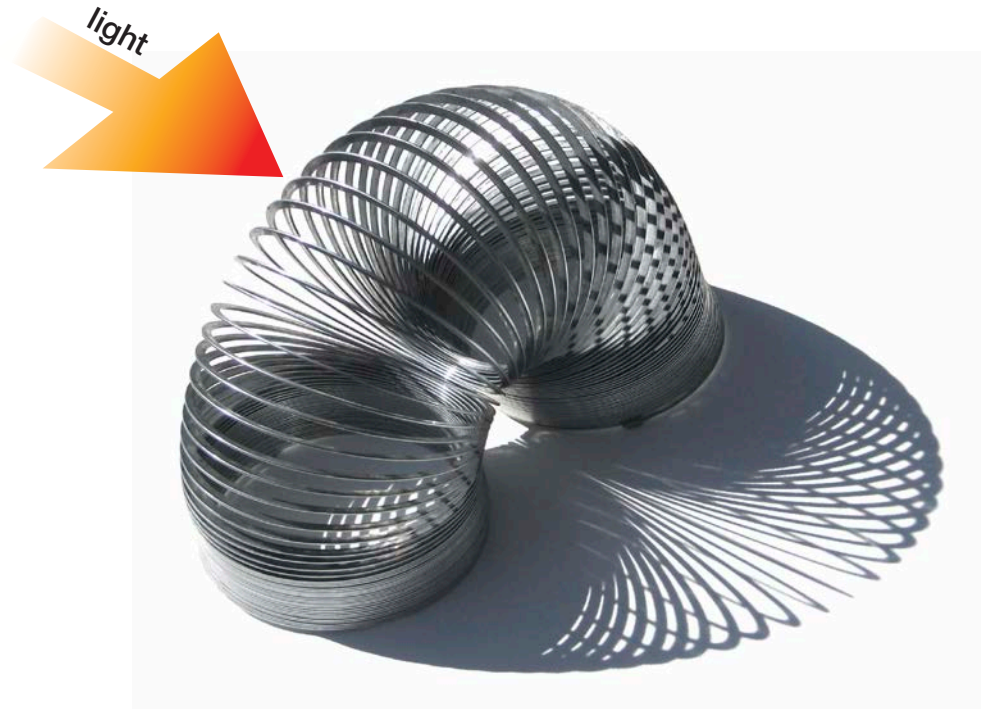
Light moves very fast.  
Click! The lights are on.  
Click! The lights are off.



Your skin gets warm in the  
sun. Light makes things warm.

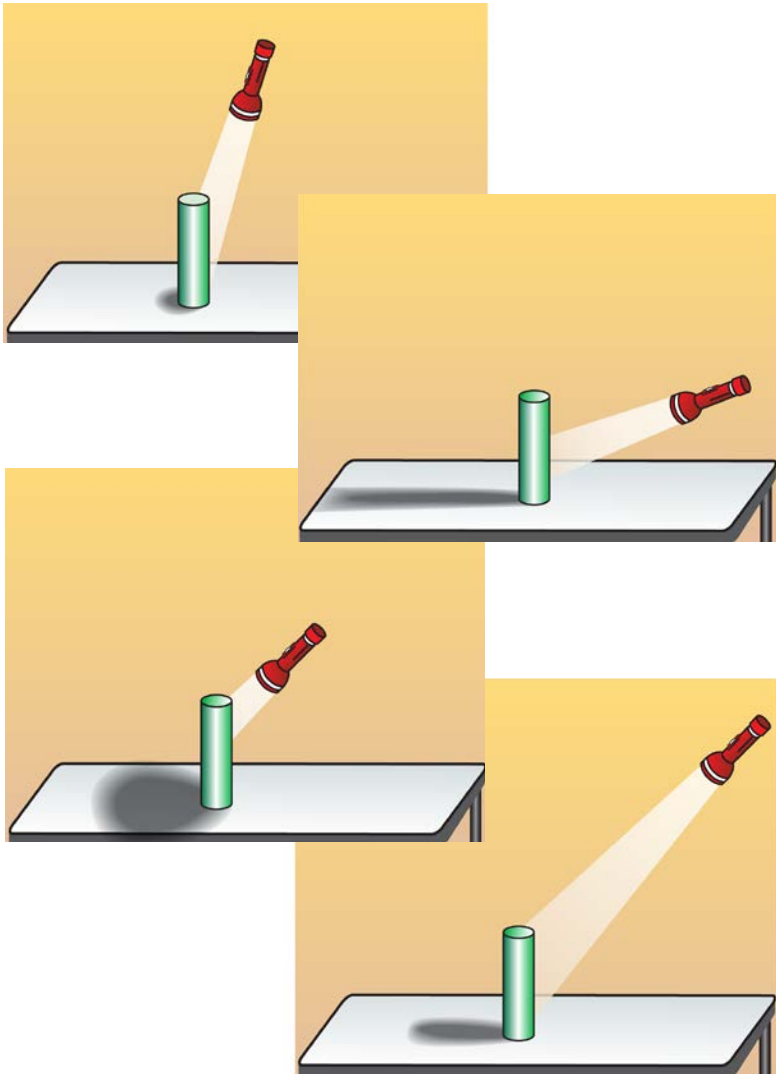


Light does not bend around things. A tree can block the light.



This toy blocks some light. It makes a shadow.





Shadows can be short or long. They can be big or small.



Light does one more thing. It makes pretty colors! We need light, as you can see.