

Amazing Arrow

 \boldsymbol{I} can investigate the effects of refraction.

| I can understand the way refraction alters the direction of light. |
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| On a small piece of paper, draw a horizontal arrow. You will hold it behind a glass of water and observe what happens. What do you predict will happen? |
| Try it out! Draw and write about what you observe. |
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| Can you explain what happened? Remember, refraction means that light travelling from air to glass or water changes direction. |
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Incredible Images

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| Draw a small picture on a piece of paper, for example a smiley face or star. |
| Then you will place an empty glass over the top of the picture, and look at your image through the side of the glass. |
| As you watch your picture, slowly fill the glass with water. |
| When the glass is full, you should cover the top of the glass with a saucer. |
| What do you predict will happen? |
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| Try it out! Draw and write about what you observe. |
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| Can you explain what happened? Think about refraction, and how light bends when it travels between air, glass and water. |
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