

LIGHT OF THE WORLD

Matthew 5:14-16

1 Some people live in darkness because they don't know Jesus.



2



Jesus said you are the light of the world



We shine when we tell them about Jesus.

3



Never be afraid to let your light shine! Stand out!

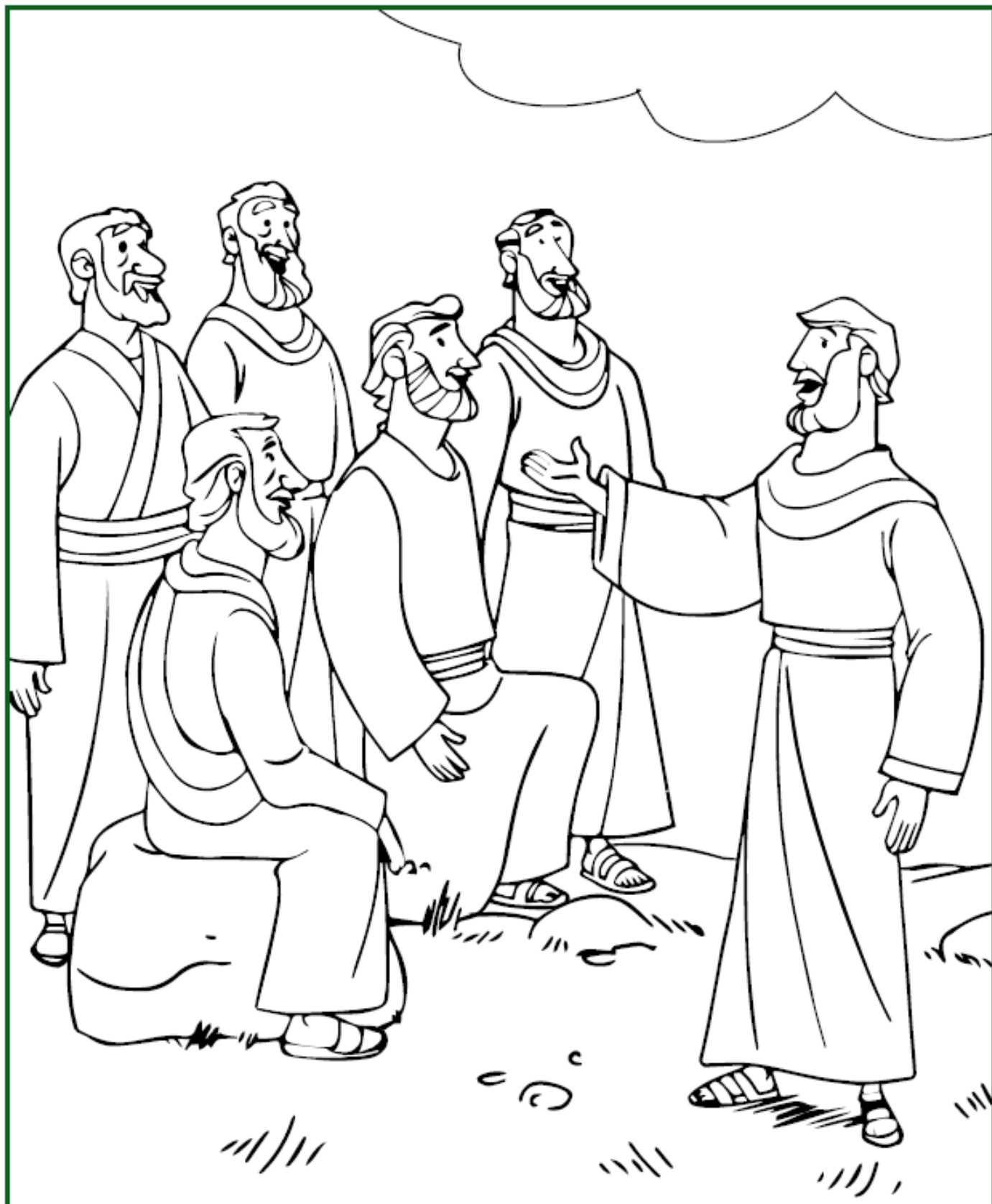


4

Remember, when you shine the light in darkness... it disappears. The light takes over!



5



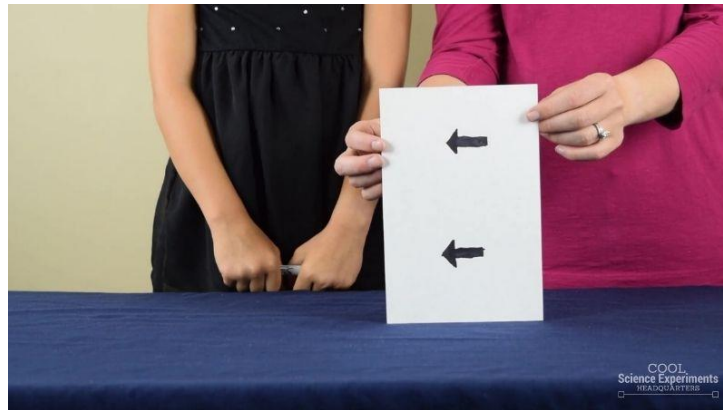
Jesus Taught That We Are Like Salt and Light.

Light Refraction Science Experiment Instructions

Supplies Needed

- Piece of Paper
- Marker
- Glass
- Water

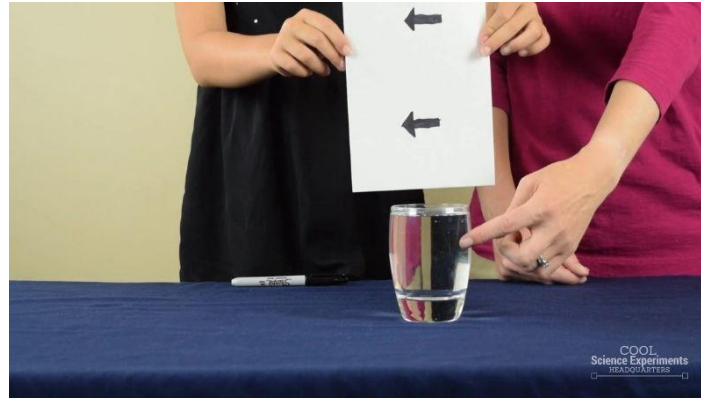
Step 1 – Get a sheet of paper and draw two arrows on it. One arrow near the top and one arrow near the bottom. Make the arrows point in the same direction.



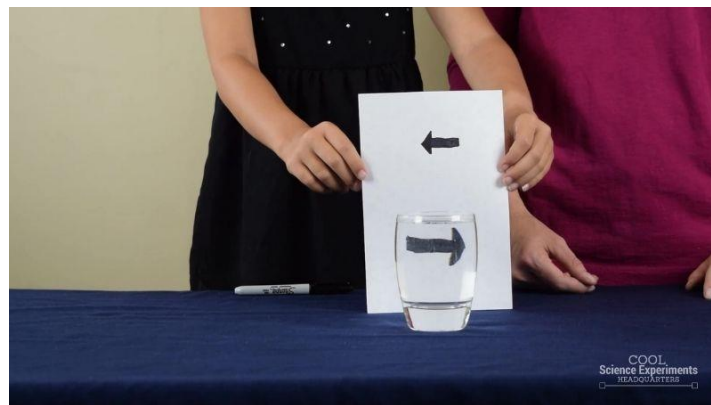
Step 2 – Fill a glass with water.



Step 3 – Slowly lower the piece of paper behind the glass of water.



Step 4 – Look through the glass of water and watch what happens.



<https://youtu.be/9n362snGUdw>

How does this experiment work?

The scientific concept that is at work in this experiment is called refraction. **Refraction** is the bending of light. Refraction occurs when light travels from one medium to another (i.e., air to water, water to air).

During the experiment, the light traveled from the image through the air, then through the glass cup into the water, and finally out of the glass cup and into the air once more before it reached our eyes. Light refracts as it passes from one medium to the next because it travels at different speeds through those mediums. Light travels fastest through air, a little slower through water, and even slower through glass.

This means that the light bends once when it travels through the glass cup into the water, and then it bends again when it travels out of the glass cup and into the air. As a result, the light paths cross and the image appears to be flipped horizontally (left/right).