



Light & Colour Video Conference

Experiment materials for schools to have ready during the conference

The unique aspects of video conferencing introduce new challenges when presenting science workshops and shows. Interactivity is paramount and as such we ask that your class have some materials ready for experiments during the video conference. Whilst we may not use all of the materials listed, it will provide an opportunity for your students to do experiments rather than simply just watch a presentation.

Due to the need to keep the conference running at a reasonable pace, we suggest only a couple of students demonstrate each experiment to the rest of the class. If we don't use some of the materials, just run those experiments after the conference!

It is best if you are familiar with the materials prior to the conference

IT IS CRITICAL TO BE ABLE TO DARKEN YOUR ROOM FOR THIS VIDEO CONFERENCE

Experiment 1: Why are sunsets red?

You will need in front of the students:

- 1 large clear container filled with water
- 100mL Milk
- A strong source of light, eg. spotlight, projector lamp
- A darkened room



Why sunsets are red

Image: Fizzics Education

1. Pour about 100 mL of milk into the water. It is often best to use only a little at first, trying the following steps out and only adding more if the intended effect is not apparent.
2. Turn the spotlight on and darken the room.
3. Face the light towards the milky water.
4. The water near the light will look white, yet if you look on the other side of the container the colour should be a mixture of orange and red. Something has been happening to the light as it passed through milk solution....

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Experiment 2: Disappearing coin

You will need per group of students

- 1 clear glass, 5 cent coin and a small plate
- 1 water jug

1. Set a coin on a table
2. Place the base of a clear drinking glass over the coin.
3. Cover the mouth of the glass with a small plate.
Looking in through the side of the glass, you can still see the coin.
4. Remove the plate and fill the glass with water.
5. Once you've filled the glass, replace the saucer. Can you still see the penny through the side of the glass?



Disappearing coin

Image: Steve Spangler

Over 150 free science experiments with full descriptions for extra lesson plans

<http://www.fizzicseducation.com.au/Free+experiments.html>

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Fizzics Education Pty Ltd
10/55 Fourth Ave
Blacktown
NSW 2148
Australia

