## UAMN Virtual Early Explorer colors

## Colors of Sunlight Mini Experiments

Discover the science of sunlight and colors!

Instructions: Discover the science colors and sunlight with eight mini experiments Explore at your own pace!

Optional: Print and cutout cards. Fold Ζ Œ and due together to make a double-sided card.

Where materials are needed, they are noted on the card.

## Mini Experiment 1

Light or Dark?

Go in a dark room, then go in a room with a window (during the daytime). Do yosee more colors in the dark or in the light?

## **Explore**

The light of the Sun shines on the Earth during the daytime. We see colors when it is light.

Image: Sam T on Flickr.

## Mini Experiment 2

Speed of Light!

Go for a walk for 8 minutes. Set a timer and see how far you get in the time it takes ^µv[• o]PZš š} P š š}

Materials: Timer or watch.

## **Explore**

Sunlight travels faster than anything we know! It takes just over 8 minutes for sunlight to travel from the Sun to the Earth!

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## Mini Experiment 3

### Make Waves!

Can you blow waves over a bowl of water with a straw? We see light waves from the Sun as beautiful colors!

Materials: Water, bowl, straw.

## **Explore**

Sunlight is made of waves. These waves travel from the Sun to the





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## Mini Experiment 6

## **Bouncy Colors!**

Compare the bounce of a playdough ball and a bouncy ball (use two colors if available). Which ball bounces more? Imagine light bouncing off in a similar way.

Materials: Playdough, bouncy ball.

## **Explore**

Objects on Earth absorb and bounce back different wavelengths of sunlight. The colors we see are the waves that are reflected (bounced back) A leaf looks green to us because it absorbs red light and reflects green light.



## Mini Experiment 7

#### **Find Colors!**

Look around you. Name several colors that you can seeright now. What are your favorite colors?

## **Explore**

Special cones inside our eyes allow us to see many different colors. People everywhere around the world see colors. Colors might have different names and meanings.

Image: Pixnio.com

# Mini Experiment 8 Ultraviolet Colors!

Color a piece of paper with as many bright colors as you can Imagine the colors you could see if you had ultraviolet vision!

Materials: Paper, crayons or markers.

## Explae

Many animals, including some insects, birds, and fish, can see ultraviolet or infrared colors invisible to human eyes. Objects might look very different with ultraviolet or infrared colors!

