

# Ames Public Library @HOME Activities

## Ultraviolet Rays

Ultraviolet (UV) ray is a light frequency given off by the sun. It is invisible to humans but visible to some insects and other animals. Overexposure to UV light can be harmful and cause blisters on the skin. Using products like sunscreen can help protect your skin.

See a related video on the Library's YouTube Channel at <http://bit.ly/APLvideos>.

### Books and Media:

<b>Title</b>	<b>Author / Performer</b>	<b>Call Number</b>
<i>Far Out Guide to The Sun</i>	Carson, Mary Kay	J 523.7 CAR
<i>The Sun is Kind of a Big Deal</i>	Seluk, Nick	J 523.7 SEL
<i>Light Waves</i>	Adler, David A.	J 535 ADL
<i>The Magic School Bus Gets a Bright Idea</i>	Cole, Joanna	J 535 COL
<i>Make it Glow</i>	Claybourne, Anna	J 535 CLA
<i>Your Senses at the Beach</i>	Hutmacher, Kimberly M.	ETR 551.457 HUT
<i>Day at the Beach</i>	Booth, Tom	E BOO
<i>Bill Nye the science guy: The sun</i>	Bill Nye	J 507.8 NYE (DVD)

### Websites:

URL
<a href="http://www.optics4kids.org/">www.optics4kids.org/</a>
<a href="http://www.sciencekids.co.nz/light.html">www.sciencekids.co.nz/light.html</a>

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## Small Parts Alert

### Bag Contents

- 1 chenille stem
- 4 regular beads
- 5 Ultraviolet light sensitive beads

### At Home Activity

In this week's @HOME Activity we will be creating bead bracelets. In your kit are 5 ultraviolet sensitive beads, 4 regular beads, and a chenille stem. The ultraviolet beads appear white in the shade, but change color when exposed to the sun.

To make your bracelet, slide the beads onto the chenille stem in any pattern you like. When you are done, you can twist the chenille stem around your wrist to make your bracelet. To see the ultraviolet beads change color, take your bracelet out in the sun and watch what happens!

**Sources:** Your Senses at the Beach by Kimberly Hutmacher ETR 551.457 HUT;

Make it Glow by Anna Claybourne; J 535 CLA; Light Waves by David Alder; J 535 ADL



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## Vocabulary

**Energy-** The ability to do work.

**Light-** A form of electromagnetic radiation that can be seen by the human eye. The study of light is known as optics.

**Spectrum-** The band of colors that make up light.

**X-rays-** Rays on the invisible part of the electromagnetic spectrum that go through many solid materials. X-ray are used in medicine and in security.

**Microwaves-** Rays on the invisible part of the electromagnetic spectrum used in cooking and radar.

**Transparent-** Something that is see through, or allows light to pass through.

**Reflect-** To bounce off a surface.

**Ray-** A line of light traveling forward through space.

**Sunscreen-** Is usually a product applied to a person's skin to prevent sunburn and skin cancer.