



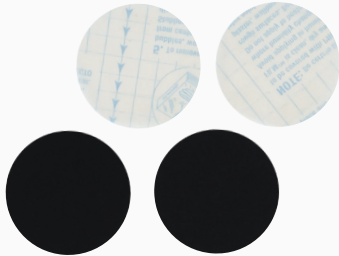
# Lightning Bug Sun-catcher

## Materials Needed:

- Tru-Ray® Construction Paper, #P103031
- Pacon® Protecto Film™, #P0072360
- Spectra® Bleeding Tissue Squares, #P0058525 OR Kolorfast® Tissue Paper, #P0058950
- Creativity Street® Chenille Stems, #PAC7112-01
- Creativity Street® Wiggle Eyes, #PAC3446-06
- Ticonderoga® Yellow #2 Pencil, #X13806
- Prang® Glue Stick, X15371
- Scissors, tape, pencil, hole punch



Cut two 3 ½ inch circles from the Protecto Film™ and two 3 ½ inch circles from construction paper.



Cut a 2 inch circle from construction paper. Draw a line down the middle of the 2 inch construction paper circle and punch a hole on each side of the line toward the top of the circle.



Peel off the backing from one of the Protecto Film™ circles and place the head on the sticky side, with most of it sticking off of the Protecto Film™ circle. Next, place colored tissue paper on sticky side, covering all of the Protecto Film™.



Peel off the backing from the second Protecto Film™ circle and stick to the tissue paper side of the other Protecto Film™ circle. Cut away any access film and tissue paper that is hanging over the edge of the film circle.



Cut the two 3 ½ inch construction paper circles in half to make wings. Glue the two wings to each side of the body. Next, glue the 2 inch construction paper circle to the top to make the head.



Pull both ends of the 4 inch stems through the holes, twist at the base of the head, and bend the ends to make antennae. Peel and stick eyes on your firefly. Hang from a string, or attach to a window.



# Teacher Info & Tips

Continue exploring lightning bugs with the following reading suggestions, and pique students' interest with these fun facts about lightning bugs. This project also teaches some of the Visual National Core Arts Standards, listed below.

## Recommended Books/Reading

- When Lightning Comes in a Jar by Ernest L. Polacco
- The Very Lonely Firefly by Eric Carle
- Fireflies by Julie Brinckloe
- Ten Flashing Fireflies by Philemon Sturges
- Fireflies in the Night by Judy Hawes
- Creatures that Glow by Melvin Berger
- Sam and the Firefly by P.D. Eastman
- Firefly by Paul McCutcheon Sears
- Fireflies by Mary R. Dunn
- Fireflies by Margaret Hall

## Fun Facts

- Lightning bugs are also known as fireflies, and they are a kind of beetle.
- A lightning bug's body can be yellow, green, or orange.
- Lightning bugs are carnivorous (meat-eaters) but also eat insects like slugs, worms, and snails.
- Lightning bugs are bio-luminescent, meaning they can make their own light.
- There are special cells and organs in a firefly's body that work together to make their body glow.
- The glowing comes from a chemical reaction when luciferin combines with oxygen, calcium, and adenosine triphosphate.
- Lightning bugs make the most efficient light in the world. One hundred percent of the energy from the chemical reaction is emitted as light. A typical light bulb emits only 10% light and 90% heat.
- Each lightning bug species has a specific pattern of flashing. Males use the light flashes to attract other females of the same species.

## National Core Arts Standards—Visual

- Anchor Standard #1: Generate and conceptualize artistic ideas and work
- Anchor Standard #2: Organize and develop artistic ideas and work
- Anchor Standard #3: Refine and complete artistic work



Open  and tap  for ideas

