

Day 6 Light: Sunlight

Science

Can you create a shadow puppet? For this activity, create a silhouette of an object. A silhouette is a solid, opaque object. Follow the attached instructions to create a shadow puppet.



Take your object outside, stand it up, and let the sun hit it. Can you see it's shadow? Move your object around or hold it in different positions. Does the shadow change?

Looking to learn more?

Puppet Power

<http://ow.ly/Hzfl50APE7p>



How to Make Shadow Puppets

Materials:

- Black paper
- Bamboo skewers or popsicle sticks
- Scissors
- Pencil
- White paper
- Glue or tape

Directions:

1. Find different objects or toys to put outside on a sunny day or put in front of a flashlight in a dark room
2. Put a piece of white paper on the behind the object/toy so you can see the object's shadow
3. Trace the shadow on the white paper
4. Place the white paper on black paper and cut out the outline
5. Tape or glue the black paper cut out on a skewer or a popsicle stick

Alternatively, you can print and cut out puppets from online or trace your own design from books or photos.

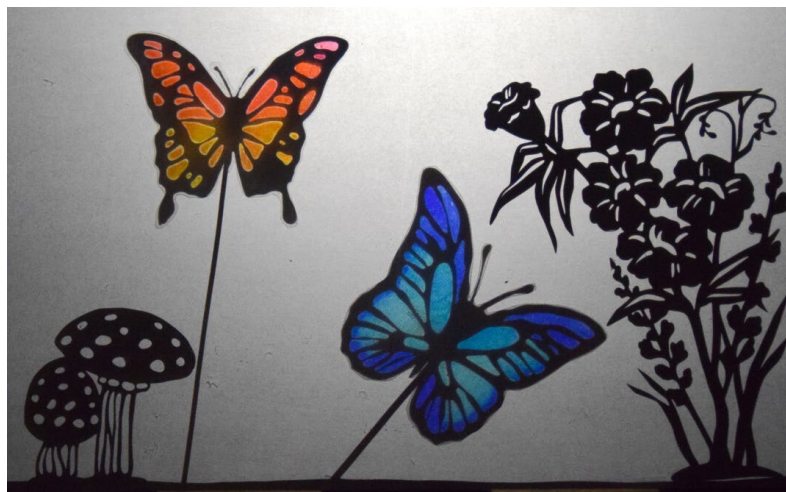
How to Make Colorful Shadow Puppets

- You can either use an empty single-use plastic container (the kind of clam shell package they sell fruits and pastries in), a plastic folder with clear sheets, or marker colored cling wrap.
- Glue your black paper design outline onto the plastic material and cut it out to put on your popsicle stick or skewer.

Adapted from:

<https://www.adventure-in-a-box.com/make-shadow-puppets-home/>

<https://kidsactivitiesblog.com/137133/how-to-make-shadow-art-with-kids/>



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Social Studies

NAME _____

YOUR FAMILY FOLK TALE

A folktale is a story that is typically passed down via word of mouth. In other words, someone from the family or the community tells a story at different events (e.g. party, barbecue, campfire, etc.). The story becomes so popular that other people begin to tell the story. Then, the people who were children when they first heard the story, tell the story to their children. This happens for generations.

Directions: Talk to a family member about a story that has been told in your family. Can you record the main details?

Detail 1: _____

Detail 2: _____

Detail 3: _____

Detail 4: _____

Detail 5: _____

Detail 6: _____

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Social Studies

Learn more about folktales and shadow puppet theater with the links below!

Folktales around the world

<http://ow.ly/OT0F50APDKj>



Shadowlight Production: Theater (Shadow Puppetry)

<http://ow.ly/vrhJ50APDLV>



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Math

NAME _____

How Tall is Your Shadow? (Measurement)

A shadow's length will change depending on the time of day (if outside), or its position to a light source (inside).

Materials: Sunny Day, Chalk, Measuring Tape

Directions: For this, you will need a sunny day, a friend to draw an outline of your shadow, and a tape measure. At the times listed below, go outside and have your friend draw an outline of your shadow on the sidewalk. Then, use the worksheet below to measure the length of each shadow.

How long is your shadow at 12:00 pm?

How long is your shadow at 2:00 pm?

How long is your shadow at 4:00 pm?

Is there a difference in the length of each one?

Explain why you think there is a difference in the lengths?

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English Language Arts

NAME _____

Write Your Own Shadow Puppet Play

Now that you have your shadow puppets. You are going to write a play that will use the puppets you made using the “5 W’s”: **Who** is in their story (the characters)? **What** will these characters do? **Why** will they do it? **Where** does their story happen? **When** does it take place? Will your play be like the folktales you read? Or will it be something entirely new? Once you have the play written, you will perform it for friends and/or family.

Materials: Shadow Puppets, Chalk, Measuring Tape

Who is in the story? (Main Characters): _____

What will the characters be doing? _____

Why will they do it? _____

Where does the story happen? _____

When does it take place? _____

Once you have the “5Ws,” use that information to tell a story using your shadow puppets to act it out. Invite your family and friends to watch. Or, you can record it to watch later.

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Additional resources:

Creating live cinema with puppets and shadow

<http://ow.ly/9u5450APDfZ>



Shadow Dance

<http://ow.ly/a5Ke50APDjB>

