1A. Rays of the Sun

Where's the Math?

Math vocabulary

- Curved
- Long
- Round
- Thin

Math topic

Geometry

- Recognize properties of shapes such as round and long

What to Use

Per child

- Small paper plate

To share

- Images of the sun from books or printouts
- Yellow and orange play dough (enough for each child to make a sun)
- Craft sticks and yellow and orange pipe cleaners (a few per child)

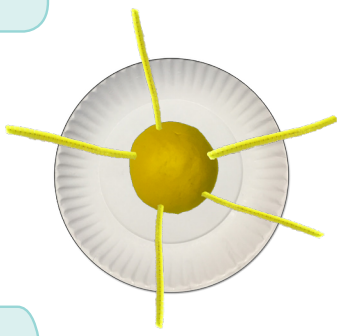
What to Do

① **Look at images of the sun together**

Talk About

Let's make a **round** sun shapes with our hands.

② **Make a sun together**



③ **Compare suns**

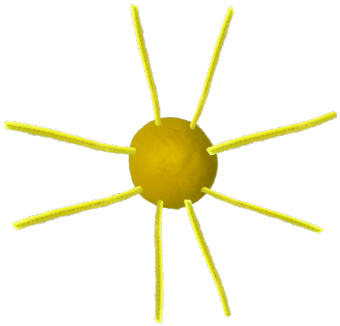
Pair up with another caregiver and child.

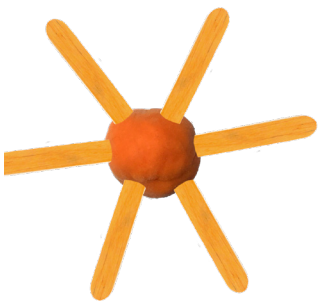
Talk About

Easy. Both suns are **round** balls with **long**, **thin** rays.

Medium. How are the suns the **same**?

Hard. How are the suns **different**?





Try this at home

Make a play dough moon. Talk about the shape of the moon.

1B. Over the Rainbow

Where's the Math?

Math vocabulary

- Bottom
- Curved
- Long
- Round
- Top

Math topic

Geometry

- Recognize properties of shapes such as curved
- Identify positions such as top and bottom

What to Use

Per child

- Small paper plate

To share

- Images of rainbows from books or printouts
- Play dough in colors of the rainbow (enough for each child to make a rainbow)

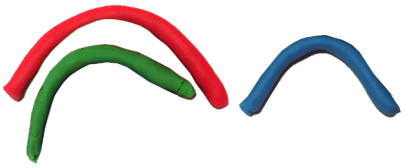
What to Do

① **Look at images of rainbows together**

Talk About

Let's make **curved** rainbow shapes with our hands.

② **Make a rainbow together**



③ **Compare rainbows**

Pair up with another caregiver and child.

Talk About

Easy. Both rainbows are **curved**. Both are red on **top**.

Medium. How are the rainbows the **same**?

Hard. How are the rainbows **different**?

Try this at home

Make a play dough raindrop. Talk about the shape of a raindrop.

2A. Rain Parade

Where's the Math?

Math vocabulary

- Half
- Less
- More

Math topic

Measurement

- Measure capacity

What to Use

Per child

- Plastic container with secure lid
- 1/2 cup of uncooked rice

To share

- 2-cup measuring cup
- Scoop for rice
- Strong tape and scissors (for adult)

What to Do

① Measure the rice

Talk About

Easy. Let's fill to the **1/2** cup mark.

Medium. How can you tell that we measured out **1/2** cup?

Hard. Measure out **1/2** cup yourself!

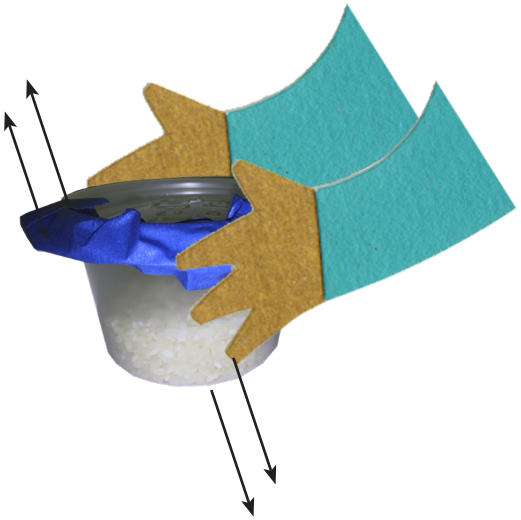
② Make a shaker

Pour the rice into a container.

Close the lid and tape for a firm seal.

③ Parade!

Pair up with another child and caregiver. Shake shakers to make rain sounds.



Try this at home

Make soft sound shakers. Use rice, toothpicks, or anything that makes a soft sound.

2B. Thunder Parade

Where's the Math?

Math vocabulary

- Less
- More
- Quarter

Math topic

Measurement

- Measure capacity

What to Use

Per child

- Plastic container with secure lid
- 1/4 cup of "noisy" objects such as pennies and uncooked beans

To share

- 2-cup measuring cup
- Scoop for noisy objects
- Strong tape and scissors (for adult)

What to Do

① Measure "noisy" objects

Talk About

Easy. Let's fill to the **1/4** cup mark.

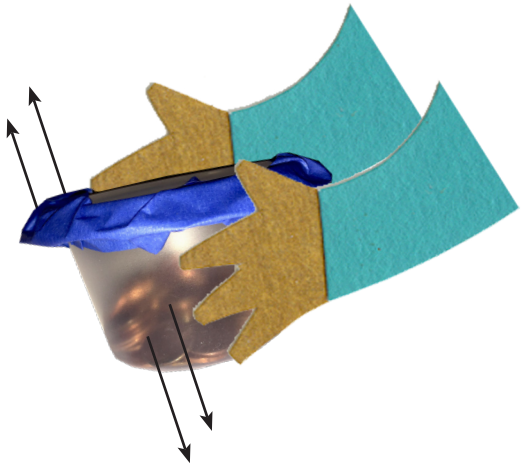
Medium. How can you tell that we poured **1/4** cup?

Hard. Measure out **1/4** cup yourself!

② Make a shaker

Pour the noisy objects into a container.

Close the lid and tape for a firm seal.



③ Parade!

Pair up with another child and caregiver. Shake shakers to make thunder sounds.

Try this at home

Make loud sound shakers. Use beans, coins, or anything that makes a loud sound.

3A. Long Windsock

Where's the Math?

Math vocabulary

- Edge
- Flat
- Long
- Round
- Short
- Tube

Math topic

Geometry

- Compare 2-D and 3-D shapes (paper and tube)
- Recognize properties of shapes such as flat and long

What to Use

Before beginning

Cut colored paper into strips. Make enough for each child to take several strips.

Per child

- Piece of colored construction paper

To share

- Paper strips
- Glue sticks
- Clear tape
- Markers

What to Do

① **Decorate, then glue on strips**

② **Tape the long edges together**

Talk About

Easy. Let's bend this **flat** paper into a **long tube**.

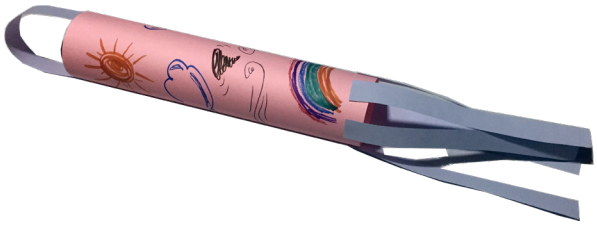
Medium. What will happen when we put these **long edges** together?

Hard. How could you make this **flat** paper into a **tube**?

③ **Tape on a strip to make a handle**

Talk About

What will happen when we blow on the windsock? Let's try!



Try this at home

Watch the wind at home. Make a long windsock out of newspaper. Hang it outside or near an open window.

3B. Short Windsock

Where's the Math?

Math vocabulary

- Edge
- Flat
- Long
- Round
- Short
- Tube

Math topic

Geometry

- Compare 2-D and 3-D shapes
- Recognize properties of shapes such as flat and long

What to Use

Before beginning

Cut colored paper into strips. Make enough for each child to take several strips.

Per child

- Piece of colored construction paper

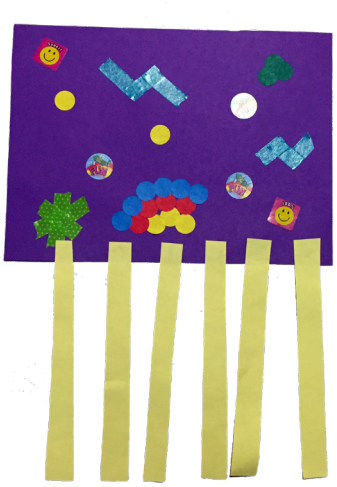
To share

- Paper strips
- Glue sticks
- Clear tape
- Stickers with a weather theme

What to Do

① **Decorate, then glue on strips**

② **Tape the short edges together**



Talk About

Easy. Let's bend this **flat** piece of paper into a **tube**.

Medium. What will happen when we put these **short edges** together?

Hard. How could you make this **flat** piece of paper into a **tube**?

③ **Tape on a strip to make a handle**

Talk About

What will happen when we blow on the windsock? Let's try!

Try this at home

Watch the wind at home. Make a short windsock out of newspaper. Hang it outside or near an open window.

4A. Shoe Match

Where's the Math?

Math vocabulary

- Flat
- Round
- Long
- Thin

Math topic

Geometry

- Recognize properties of shapes such as flat and long

What to Use

Before beginning

Hide one of each pair in a pillow case. Leave the other two out for children to see.

To share

- Pair of child's tall rain boots
- Pair of child's flip flops
- 2 pillow cases

What to Do

① **Choose a bag—no peeking!**

An adult explains that it contains either the other flip flop or the other boot.

② **Take turns feeling and describing**

Talk About

Easy. I feel something **long** and smooth.

Medium. Feel if it is **flat** on one side.

Hard. Describe the shape to me.

③ **Predict**

Talk About

Why do you think it is a boot?

④ **Take a look!**

Try this at home

Feel and find out. Hide a shoe or other clothing item in a pillow case. Children try to identify it by feeling the pillow case.

4B. Hat Match

Where's the Math?

Math vocabulary

- Flat
- Round
- Long
- Thin

Math topic

Geometry

- Recognize properties of shapes such as flat and long

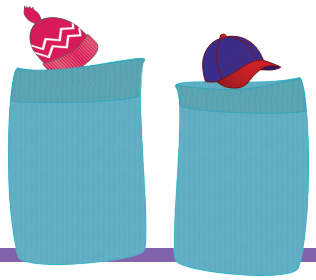
What to Use

Before beginning

Hide one of each pair in a pillow case. Leave the other two out for children to see.

To share

- Two identical child's baseball caps
- Two identical child's knit caps
- 2 pillow cases



What to Do

① **Choose a bag—no peeking!**

An adult explains that the bag contains either another baseball cap or knit cap.

② **Take turns feeling and describing**

Talk About

Easy. I feel something hard and **round**.

Medium. Feel if it has a **round** brim.

Hard. Describe the shape to me.

③ **Predict**

Talk About

Why do you think it is a baseball cap?

④ **Take a look!**

Try this at home

Feel and find out. Hide a shoe or other clothing item in a pillow case. Children try to identify it by feeling the pillow case.