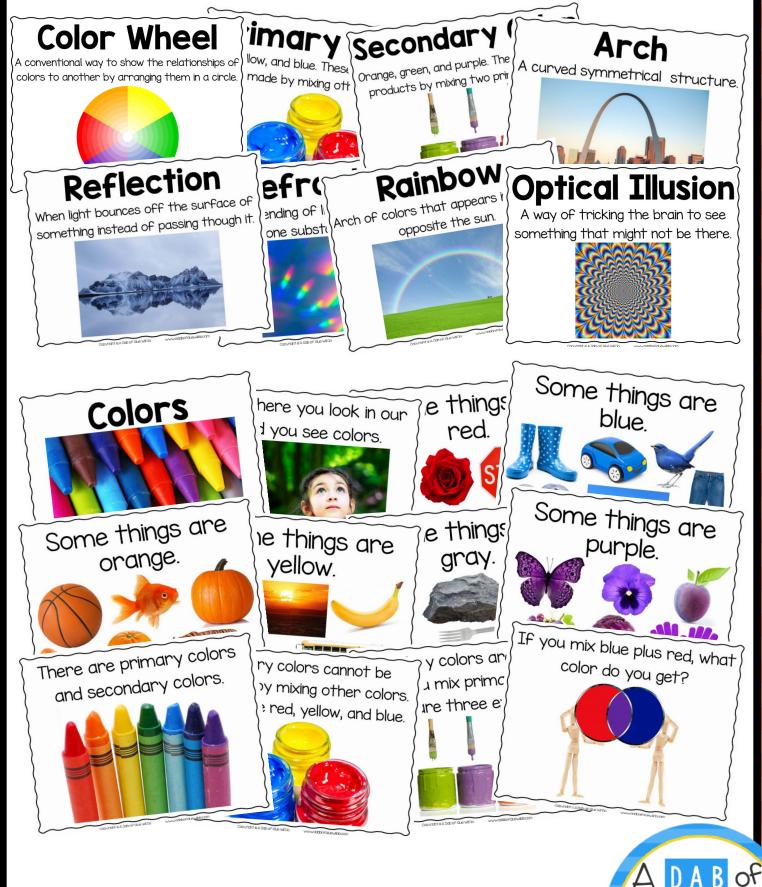
# COLORS







# THREE COLOR EXPERIMENT

# **Walking Color**

This is great way to show yo real life color wh

#### **SUPPLIES**



In each jar, pour ½ cup of v few drops of food coloring and blue for purple, yellow a green. etc.)

DOING THE EXPERI

cup with water. Repeat this

Add 20 drops of yellow

Add a few drops of dish soap

Place the jars close together



### DOING THE EXPERIM

Ask the students what will hap add baking soda to the jar. Will stay the same or mix?

Place the paper towel like the

so that each paper towel is su the colored water of one full

end is also in the empty cup.

that each cup has two paper

that all jars are connected in

paper towel circuit.

Add baking soda to the vinego teaspoon at a time. Watch as foams and spills out of the jo



Watch as the ice melts and for

color. Let the kids experiment

several ice cubes of varying co how many different colors the

#### same cup?

- QUESTIONS TO Fold paper towel into length wis How long does it take move from one cup t Why doesn't all the w
  - What other colors col "walking" the water fr

#### THE SCIENCE BEH

The colored water move towel by a process called Capillary action is the ability flow upward, against gravi spaces. This is the same t water climb from a tree's eaves at the top.

QUESTIONS TO

What is a chemical

Why do baking soda

What would happen if

the primary colors?

THE SCIENCE BEI

Baking soda and vinegar i baking soda is a base and

This gas catches the bakin

What other colors c

Why do colors change

Why do we see colors THE SCIENCE BEH

melting ice cubes?

The color spectrum is m

and secondary colors. Th

light spectrum, which is b wavelength. Primary color

colors that all colors are need red, blue, and yellow

nelting ice at the same tin

#### Walking Water (

If we place paper towe water, I predict this wi

Draw a picture of you



If we add baking soda

Baking Soda E

# Show what happened to the water and

Name:

## **Baking Soda Explosions**

Walking Water Color Wheel

If we place paper towels in the colored water, I predict this will happen:

If we add baking soda in each jar, I predict this will happen:



Show what happened to the colors once

Name:

#### When the two colors reach QUESTIONS TO Melting Ice Magic If we place different colored ice in a jar, I predict this will happen:

Melting Ice If we place different o jar, I predict this will he

Draw a picture of you

Before Melting

Explain what happer

Show what happened to the colors once

#### Baking Soda Co SETTING UP

This is one of my favorite e: do! Such a great color m

#### **SUPPLIES**

- Jars Fish Soap
- Vinegar Baking Soda Food Coloring
- Tray

# Co. i Melting Ice N

## DOING THE EXPERI

Place two opposite-colored Jar. Add salt and a bit of wa This is fun and mess free war students a great color r ice cubes melt faster



Ask the kids if they think the co separate or mix, and what color

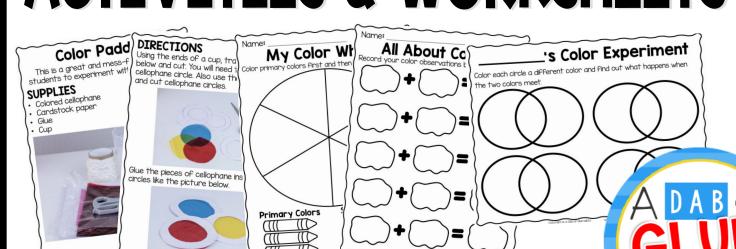




#### SETTING UP

Color some water re Carefully pour the c cube tray and free: the colors.

# ACTIVITIES & WORKSHEETS







rainbow is ar rs that form

Rainbows are created t reflection and refraction water droplets in the at

When we look at the sun, we see a white light. In reality the light from the sun is made up of the colors you see in a rainbow.



These seven colors are red, orange, yellow, green, blue, indigo, and violet.



You see them frequently hy ws can be waterfalls. -og, dew, c ter drops rom behind



A rainbow can only be seen if you are between the sun and the rain.



A rainbow is actually a circle, but we usually can just see half of one.



s there can even be double his happens when light bend off the water drops in the air twice.

Students can try this experime prism to, allowing them to com they notice.

eople will see pow because reate a differ



# Making a Rai

Students are fascinated with why not let them make

#### SUPPLIES

- CDs Flashlights (ideally not LE Piece of White paper Prism (not necessary, b



SETTING UP Ideally you have sev students can compl groups.

# DOING THE EXPERI)

Have each group examine the notice the different bands of you tilt the CD the colors wil

Place the white paper on the flashlight on the CD. The light flashlight will reflect onto the a rainbow.



#### QUESTIONS TO

What does the flashligh How does changing the flashlight change how the What makes the light se bounces off the CD?

#### THE SCIENCE BEH

Similar to when water dr rain, the CD separates w the colors that actually r

White light is made up of see in a rainbow (red, oran blue, indigo, and violet). Whe flashlight on the CD it sepa light into 7 colors. The pits also help reflect the light.

Flashlight I If we shine a flashlight this will happen:

Draw a picture of you Without Light

Explain what happer the flashlight on the

Name:

#### Flashlight Magic

If we shine a flashlight on a CD, I predict this will happen:

Show what happened when you shine the flashlight on the CD :

