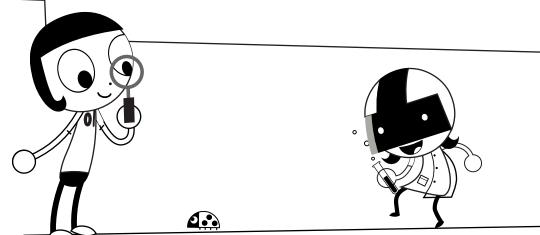
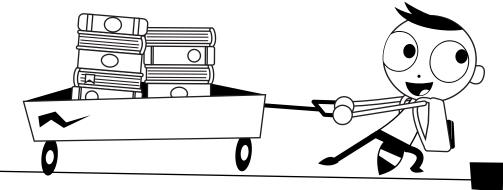


### **Light and Shadows**









Week of January 18th

### Hello, Families!

Welcome to **Learn Along Bingo**! We're happy to share PBS KIDS activities with you and to work with PBS member stations and community partners across the country to help support learning at home. With Learn Along Bingo, children can view, explore, and play as they learn alongside their PBS KIDS friends on the PBS KIDS 24/7 channel. We hope your family will use it to inspire learning each and every day.

### It's Lights and Shadows Week!

In this packet, there are printable activities and everyday learning ideas for you and your child to choose from. As you complete each square, mark it off to celebrate the learning.

### **Learning Spotlight: Shadows**

This week, we're investigating light and shadows. We will learn that some materials block light creating a dark shadow on any surface beyond them, where the light cannot reach.

### Show What You Know: Moon Journal Activity

The last activity in this packet is a perfect way for children to learn that the moon doesn't actually change shapes.

**Tune in:** Watch HERO ELEMENTARY at 8pm on Tuesday, January 19th on the PBS KIDS 24/7 channel.

Ready for more? Watch your favorite PBS KIDS shows on the 24/7 channel and live stream at pbskids.org/video/livetv or on your local PBS station.

### Happy learning! PBS KIDS



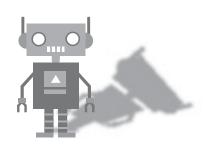


### **Light and Shadows**





Stick Puppet Shadow Play



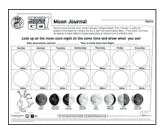
Explain to someone what a shadow is.



**Shadow Cards** 



Practice making shadow puppets with your hands.



**Moon Journal** 



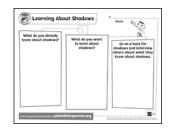
Collect objects that reflect light and make an art project.



**Shadow Play** 



Make a list of any light sources in your house.



**Learning About Shadows** 



**Grades 1-2** 

Find more games and activities at pbs.org/parents/learn-at-home





CHAIRMAN



### **Shadow Puppets**

**Instructions:** With the help of an adult, cut along the dashed lines. Tape or glue a straw or wooden craft stick to the back of the puppet.







You can create a shadow puppet show! In a dark space (like a room with little light), shine a light on the puppet. Do you see the shadow? The puppet blocks the light from passing through it.

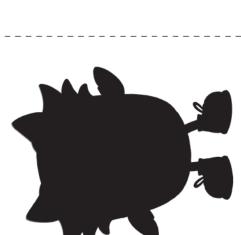
Find more games and activities at pbskidsforparents.org





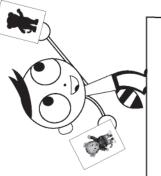


you. Place the cards face down on a flat surface. Choose two as you work to match the PBS KIDS characters to their shadows. If you find a pair, keep the cards. If you do not find a pair, Instructions: Cut along the dotted lines. Invite someone to play a matching game with pairs did each player find? What strategy did you use to match the characters with their turn the cards over in their place. Then, try again until you all find ten pairs. How many shadows?









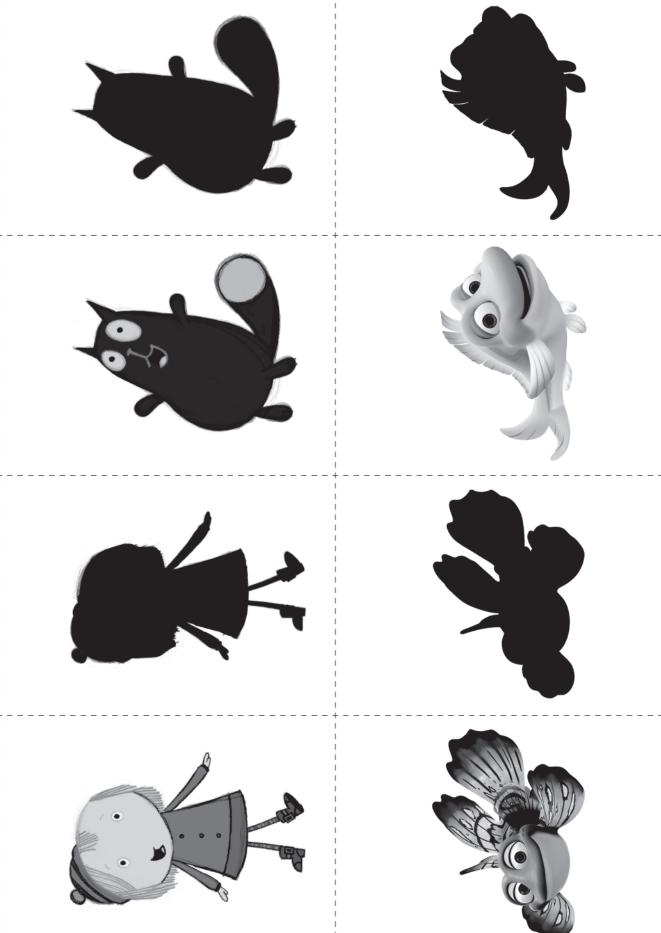


Find more games and activities at pbskidsforparents.org

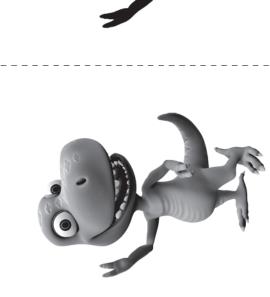
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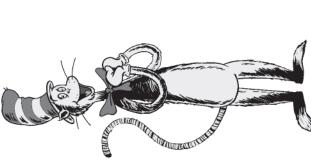


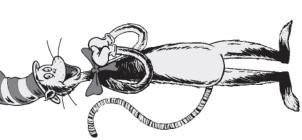














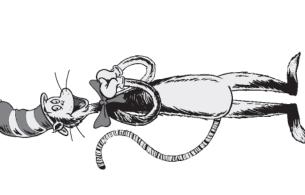














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THE CAT IN THE HAT CODE to National Estimated by:

Find more games and activities at pbskidsforparents.org





### **Shadow Play**

If you are outside on a sunny morning or late afternoon, you may notice that you have a shadow. A shadow is a dark area where light from a light source is blocked by an opaque (not see through) object. In this case, the light source is the sun and you are the opaque object blocking the sun's light from reaching the ground. You may notice that other objects like trees or playground slides also have shadows. They are blocking the sunlight, too.

### What You'll Need

- Flashlight
- · Cereal box of cardboard
- Scissors

- Glue
- Printouts of Nature Cat, Hal, Squeeks and Daisy and their support bases.

### **Directions**

### Step 1

Print out the sheet of Nature Cat, Hal, Squeeks and Daisy pictures and their support bases and glue the entire page to a cereal box or other cardboard. Let the glue dry.

### Step 2

Cut out the pictures of Nature Cat, Hal, Squeeks and Daisy and their support bases again, with the cardboard. Be sure to cut the small lines in the base and the base support.

### Step 3

Slide the base support into the base for each character so that the character can stand up.

### Step 4

Go into a room where the lights are turned off and sunlight is limited. Place a flashlight on the floor approximately two feet from a blank wall. Turn on the flashlight so that the beam shines on the wall.

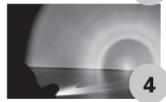
### Step 5

Place one of the characters into the beam of light. Can you see the character's shadow on the wall? Yes! You can see the shadow because the character is now blocking a portion of the light from reaching the wall. The area where the light is blocked creates a shadow and the rest of the light is still reaching the wall.

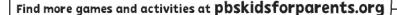












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### **Shadow Play**

### **Directions continued**

### Step 6

Place a second character between the flashlight and the wall. Can you see both of their shadows? Now try moving one character closer to the flashlight and leaving another character closer to the wall. You will see that the character closer to the flashlight has a bigger shadow. The character further from the flashlight and closer to the wall will have a smaller shadow. This is because the character closer to the flashlight is blocking more of the light from the flashlight and letting less light pass by to reach the wall.



### Step 7

Experiment with other light sources. What happens if you have a larger or smaller flashlight? What shadows can you see from an overhead light? What shadows can you see if you take the characters out in the sun during the morning or afternoon? Can you make the shadows bigger or smaller based on where there are in comparison to the light source?





### Step 8

Use the characters to put on a shadow play. You can move the characters closer to or further from the light to show them coming towards something or walking away from something.

### TALLY HO!

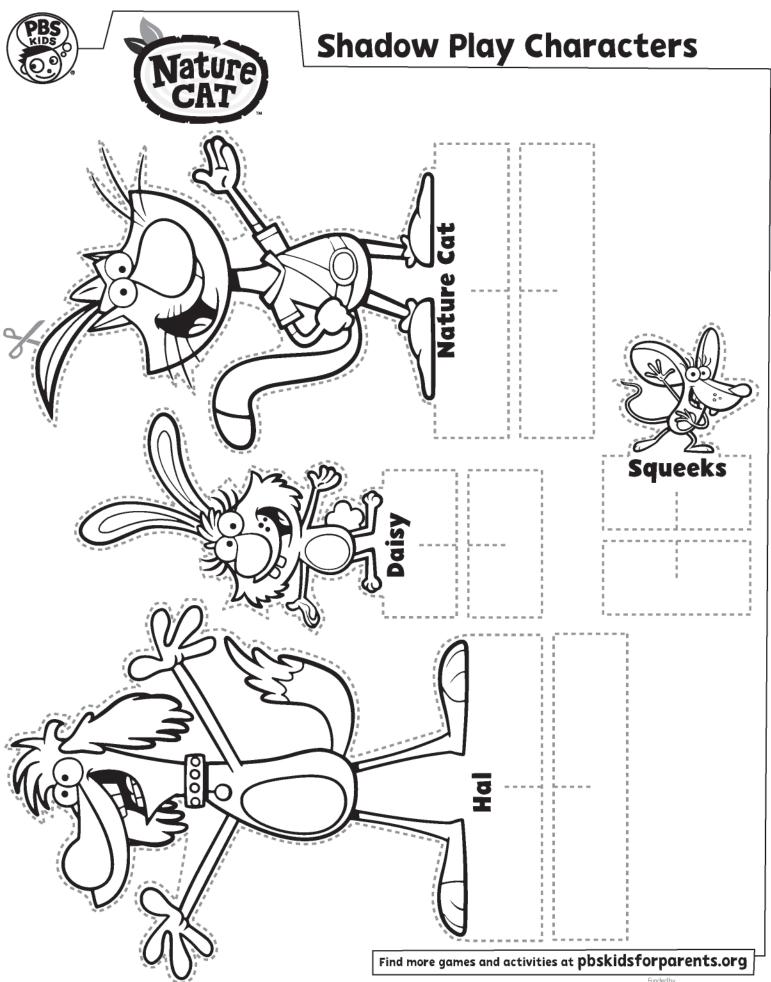
Cut out the pictures of Nature Cat, Hal, Squeeks and Daisy and their support bases. Be sure to cut the small lines in the character base and the base support. Slide the base support into the base for each character so that the character can stand up.



Find more games and activities at pbskidsforparents.org

Corporation for Public





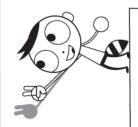
COO Corporation for Public Broadcasting





## Learning About Shadows

Name



Go on a hunt for shadows and interview others about what they know about shadows.

What do you already know about shadows?

What do you want to learn about shadows? COrporation for Public Broadcasting

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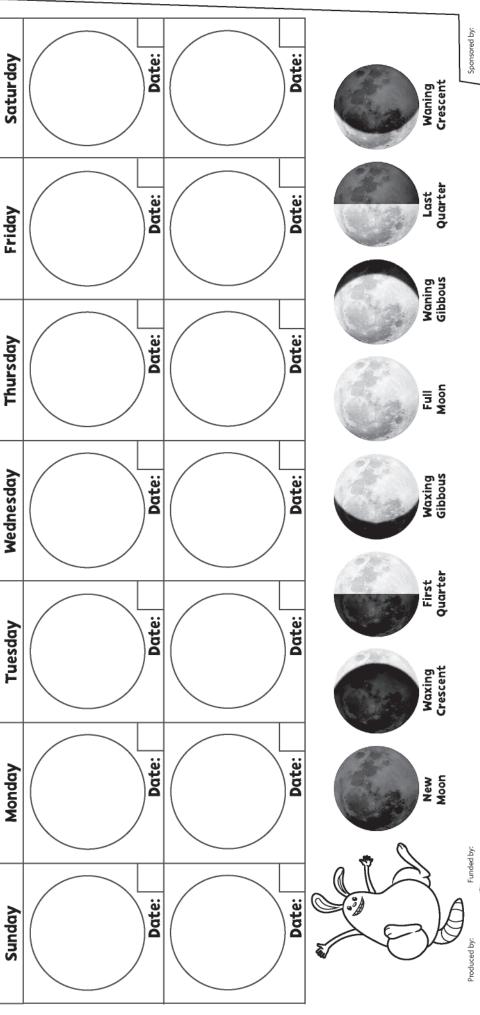
### Moon Journa

Name

shadow of the Earth as it blocks the Sun's light from reaching the Moon. From Earth, the moon Did you know that the moon doesn't actually change shapes? This "change" is really the will appear to have different shapes depending on where it is in the Earth's orbit.

# Look up at the moon each night at the same time and draw what you see!

Time to Check Moon Each Night: Date observations started:



WIND DANCER







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Schedule Begins October 5, 2020

Explore reading, math, science, life lessons, and more on the PBS KIDS 24/7 channel and live stream! The TV schedule below offers you and your child a chance to learn anytime alongside your favorite PBS KIDS characters.

TIME (M-F)	SHOW	GRADE	LEARNING GOAL
6/5c am	Splash and Bubbles	PK-K	Science
6:30/5:30c am	WordWorld	PK-K	Literacy
7/6c am	Peg + Cat	PK-K	Math
7:30/6:30c am	Peep and the Big Wide World	PK-K	Science
8/7c am	Sid the Science Kid	PK-K	Science
8:30/7:30c am	Super WHY!	PK-K	Literacy
9/8c am	Pinkalicious & Peterrific	PK-1	The Arts
9:30/8:30c am	Clifford the Big Red Dog	PK-K	Social & Emotional Learning, Literacy
10/9c am	Let's Go Luna!	K-2	Social Studies
10:30/9:30c am	Dinosaur Train	PK-K	Science
11/10c am	The Cat in the Hat Knows a Lot About That!	PK-1	Science & Engineering
11:30/10:30c am	Martha Speaks	K-2	Literacy
12 pm/11c am	Nature Cat	K-3	Science
12:30 pm/11:30c am	Ready Jet Go!	K-2	Science & Engineering
1/12c pm	Arthur	K-2	Social & Emotional Learning
1:30/12:30c pm	Odd Squad	K-2	Math
2/1c pm	Cyberchase	1-5	Math
2:30/1:30c pm	Molly of Denali	K-2	Literacy
3/2c pm	Pinkalicious & Peterrific	PK-1	The Arts
3:30/2:30c pm	Elinor Wonders Why	PK-K	Science & Engineering
4/3c pm	Sesame Street	PK-K	Literacy, Math, Social & Emotional Learning
4:30/3:30c pm	Daniel Tiger's Neighborhood	PK-K	Social & Emotional Learning
5/4c pm	Curious George	PK-K	Math, Science & Engineering
5:30/4:30c pm	Curious George	PK-K	Math, Science & Engineering
6/5c pm	Wild Kratts	K-2	Science
6:30/5:30c pm	Wild Kratts	K-2	Science

Access FREE, at-home learning activities, tips, and more on pbskidsforparents.org



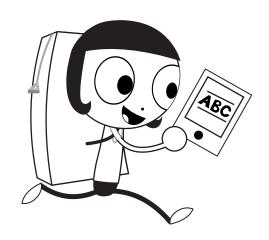
Play and learn anytime and anywhere with free apps from PBS KIDS! Use the chart below to find the app that aligns to your child's grade, learning goal, and favorite PBS KIDS show - then download it on your on your mobile or tablet device to play online, offline, or anytime.

### **Apps for Social & Emotional Learning**

Daniel Tiger for Parents	PK-K	Social & Emotional Learning	
PBS KIDS Games app	K-2	Multiple Learning Goals	
PBS KIDS Video app		Multiple Learning Goals	

### **Apps for Literacy Learning**

Dinosaur Train A to Z	PK-K	Literacy, Science		
Molly of Denali	K-2	Literacy		
PBS KIDS Games app	K-2	Multiple Learning Goals		
PBS KIDS Video app	K-2	Multiple Learning Goals		



### Apps for STEM Learning (Science, Technology, Engineering & Math)

PK-K	Literacy, Math
PK-K	Science and Engineering
PK-K	Science
PK-K	Science
PK-K	Science
PK-K	Science and Engineering
PK-K	Science and Engineering
K-2	Science and Engineering
K-2	Science
	PK-K PK-K PK-K PK-K K-2

ology, Engineering & Math)				
Ready Jet Go! Space Explorer	K-2	Science		
Ready Jet Go! Space Scouts	K-2	Science and Engineering		
Nature Cat's Great Outdoors	K-3	Science		
PBS KIDS ScratchJr	1-2	Coding		
Outdoor Family Fun with Plum	1-3	Science and Engineering		
Cyberchase Shape Quest	1-5	Math, Science		
PBS KIDS Games app	K-2	Multiple Learning Goals		
PBS KIDS Video app	K-2	Multiple Learning Goals		



pbskids.org/apps







