



**AT-HOME  
LEARNING**

# DIGITAL BACKPACK

## SOCIAL STUDIES





# AT-HOME LEARNING

**Dear Parents and Caregivers,**

Academic year 2021 brings with it unprecedented challenges and opportunities for you and your children. PBS Kids and the Cade Museum for Creativity and Invention are here to help!

Congratulations on creating innovative ways to make learning at home fun and exciting, and now we invite you to make us your home education partners.

We are thrilled to offer this new digital backpack filled with activities, resources, curriculum, and experiments, designed to engage and ignite young minds in dynamic new ways.

**Let's unpack some of the digital backpack's key resources:**

- **State standards guide for families**
- **Family reading list**
- **Printable hands-on activities**
- **PBS KIDS programming learning goals and reflection guide**
- **STEAM-focused videos from The Cade featuring activities and experiments**
- **Tips for balancing screen time**
- **PBS KIDS apps and associated learning goals**

To learn more and download PBS Backpacks in added core subjects, visit **[PBSbackpack.org](https://pbsbackpack.org)**

To share photos of your family learning with the PBS backpack, or to contact us with questions, email us at **[education@wuft.org](mailto:education@wuft.org)**. Sign-up for our newsletter at **[pbs.org/parents/newsletter](https://pbs.org/parents/newsletter)**.

Sincerely,

The WUFT Education Team



# Family Learning Guide

## SOCIAL STUDIES



To help families understand History - Social Science Content Standards, we have prepared this Family Learning Guide with specific skills and topics students are expected to know at the end of kindergarten. We have also included tips and activities you can do at home to help make history and social sciences fun and exciting.

### Being a Good Neighbor

Topics include:

- Understand that being a good citizen involves acting in certain ways
- Identify examples of honesty, courage, determination, and individual responsibility in American and World History from stories and folklore
- Understand beliefs and related behaviors of characters in stories and understand the consequences of the characters' actions
- Follow rules (e.g. sharing and taking turns) and know the consequences of breaking rules



### Family Tips for At-Home Learning

- Point out rules and laws in children's everyday lives, such as a stop sign. Talk about how the purpose of a stop sign is to keep people safe while driving or walking around. Discuss what happens when people don't stop at a stop sign
- After reading a book or watching a movie, talk about the rules that characters followed or broke. What were the consequences of not following the rules?

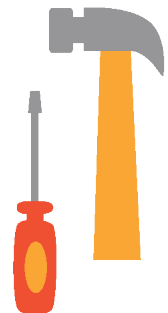
### Understanding Jobs in the Community

Topics include:

- Match simple descriptions of work that people do with the names of related jobs at school, in the community and from historical accounts

### Family Tips for At-Home Learning

- Talk with your children about your job and the jobs of people in your family
- Show the tools needed for different jobs (e.g. a hammer for a builder, a stethoscope for a doctor, and an oven for a baker)
- Explore uniforms worn by people with certain jobs (e.g. scrubs for a nurse or a special suit for firefighters). How are these uniforms helpful for their job?
- Talk about how jobs like grocery store workers, emergency medical professionals, mail delivery people, soldiers are important to the community



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# Family Learning Guide

## SOCIAL STUDIES



### Recognizing National Icons

Topics include:

- Explore national identity and cultural literacy by learning about national and state symbols, such as national and state flags, the bald eagle, and the Statue of Liberty

#### Family Tips for At-Home Learning

- Look for the flag and other national symbols in books, magazines, TV shows, and movies
- Talk about how these symbols represent America or your state to people around the world
- Compare different flags and symbols from other states and countries

### Exploring Locations of People and Places

Topics include:

- Determine the relative locations of objects using terms such as 'near/far,' 'left/right,' and 'behind/in front'
- Distinguish between land and water on maps and globes and locate general areas referenced in historical legends and stories
- Identify traffic symbols and map symbols, such as symbols for land, water, roads, cities, etc.
- Demonstrate familiarity with their school's layout, environment, and the jobs people do
- Construct maps and models of neighborhoods, incorporating structures as fire stations, airports, banks, hospitals, supermarkets, harbors, schools, homes, places of worship, and transportation lines



#### Family Tips for At-Home Learning

- Take a walk around your neighborhood and draw what you see so that you can recreate a community map at home using toys and recycled materials
- Point out important places like schools, stores, places of worship, libraries, favorite restaurants, and other places important to your family
- Talk about the helpers that work in each of those places
- Explore traffic signs and their meaning when you are riding in the car. Talk about how symbols and pictures are used so that everyone can understand what they mean



# Family Learning Guide

## SOCIAL STUDIES



### Using a Calendar

Topics include:

- Put events in temporal order using a calendar
- Place days, weeks and months in proper order



### Family Tips for At-Home Learning

- Make the passage of time more relatable for younger children by creating a story sequence. Have your child draw important events in the story and then put them in order
- Create a timeline of your child's life to show the sequence of important events, beginning with when they were born, detailing when they started walking, talking, and starting school
- Expand the timeline to include other members of your family

### Relating History to Events, People, and Places

Topics include:

- Identify the purpose, people and events honored in commemorative holidays, including the human struggles that were the basis for the events (e.g., Thanksgiving, Martin Luther King Jr. Day, Independence Day, etc.)
- Understand how people lived in earlier times and how their lives would be different today (e.g., getting water from a well, growing food, making clothing)
- Know the stories of historical figures, such as Pocahontas and Benjamin Franklin

### Family Tips for At-Home Learning

- Show children how food was once cooked only by fire. Talk about all the different tools we now use to cook food as you are preparing dinner. Would it take longer if you could only use fire?
- Explore family photos and point out the different clothes and hairstyles that were popular in the past. Compare them to the clothes and hairstyles people wear today
- During the holidays, talk about the history of the event, the people involved, and why it is important to commemorate that day
- Some holidays have false narratives or harmful histories. Approach these stories with caution, while being honest and age-appropriate.

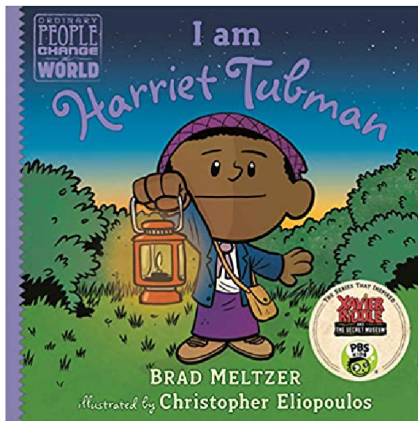
# Family Reading List

## SOCIAL SCIENCES



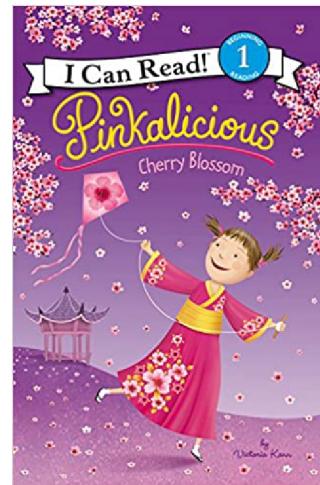
Reading time can be an easy and fun way to learn about history and social sciences. Check with your local public library to access these books online or click on the book covers to watch a read aloud of the story.

### I am Harriet Tubman



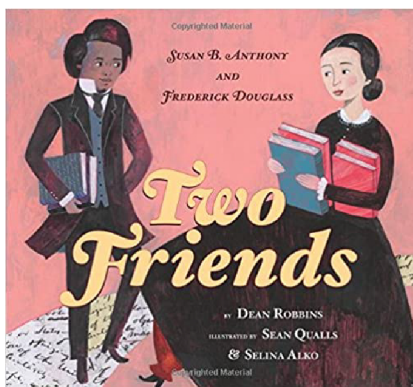
By Brad Meltzer  
Illustrated by Christopher Eliopoulos  
Ages: 5 to 8

### Pinkalicious: Cherry Blossom



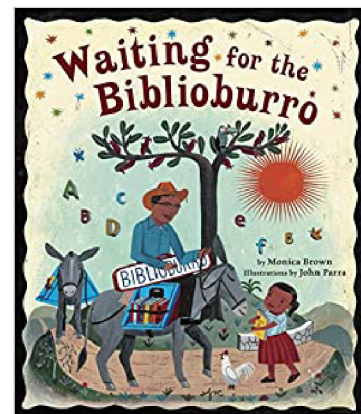
By Victoria Kann  
Ages: 4 to 8

### Two Friends



By Dean Robbins  
Illustrated by Sean Qualls  
Ages: 4 to 8

### Waiting for the Biblioburro



By Monica Brown  
Illustrated by John Parra  
Ages: 5 to 8





# Let's Go Luna!



## Matryoshka Doll Activity

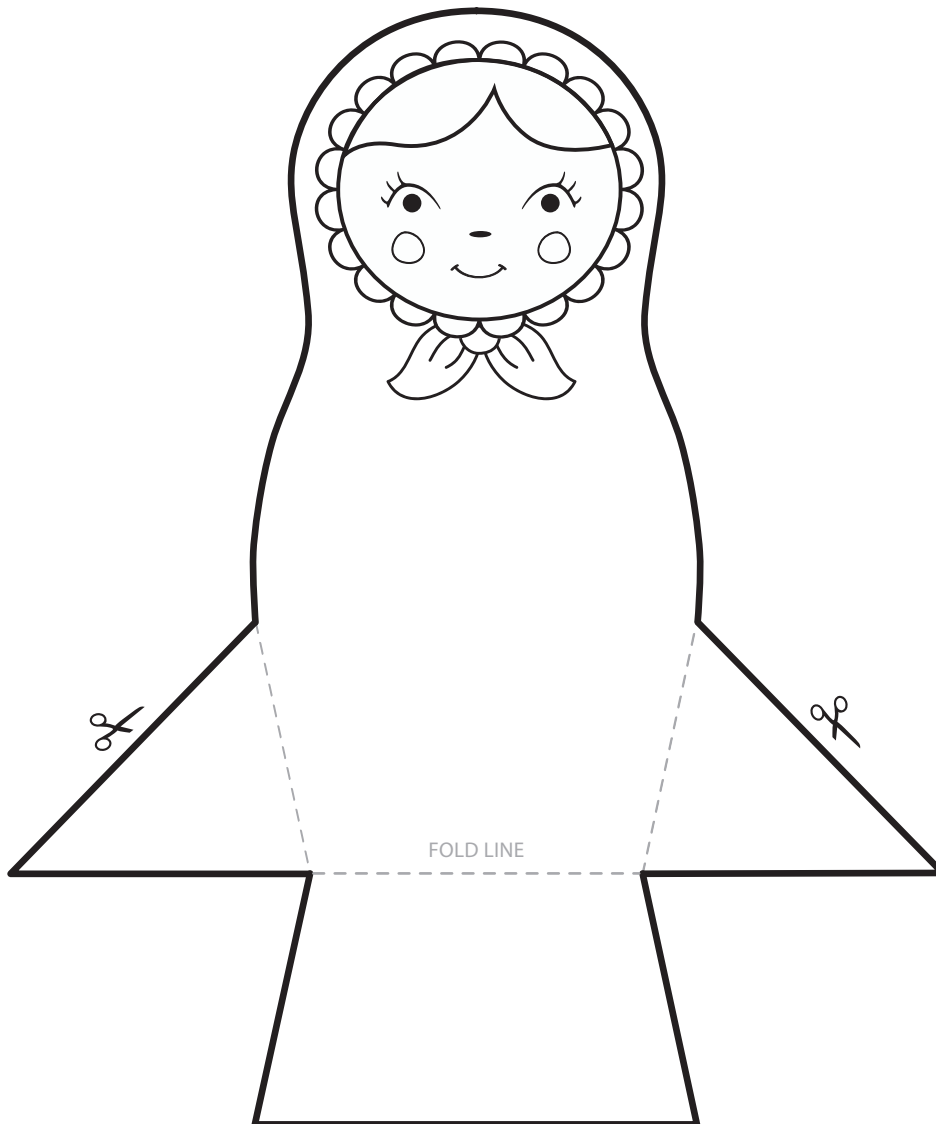


Follow these simple steps to make your own Matryoshka dolls.

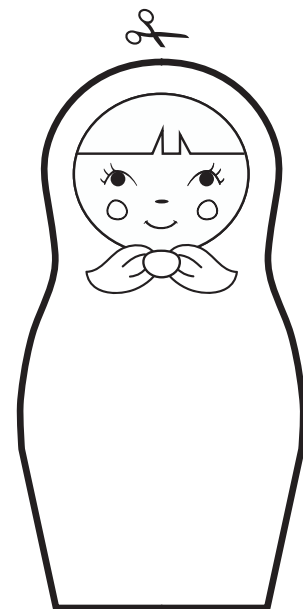
1. COLOR AND DECORATE THE THREE DOLLS.
2. CUT OUT DOLLS ON BLACK LINE.
3. FOLD POCKET FLAPS INWARD AND UP ALONG THE DASHED LINES.
4. SECURE THE POCKETS WITH GLUE OR TAPE.
4. INSERT DOLLS INTO POCKET FROM LARGEST TO SMALLEST.



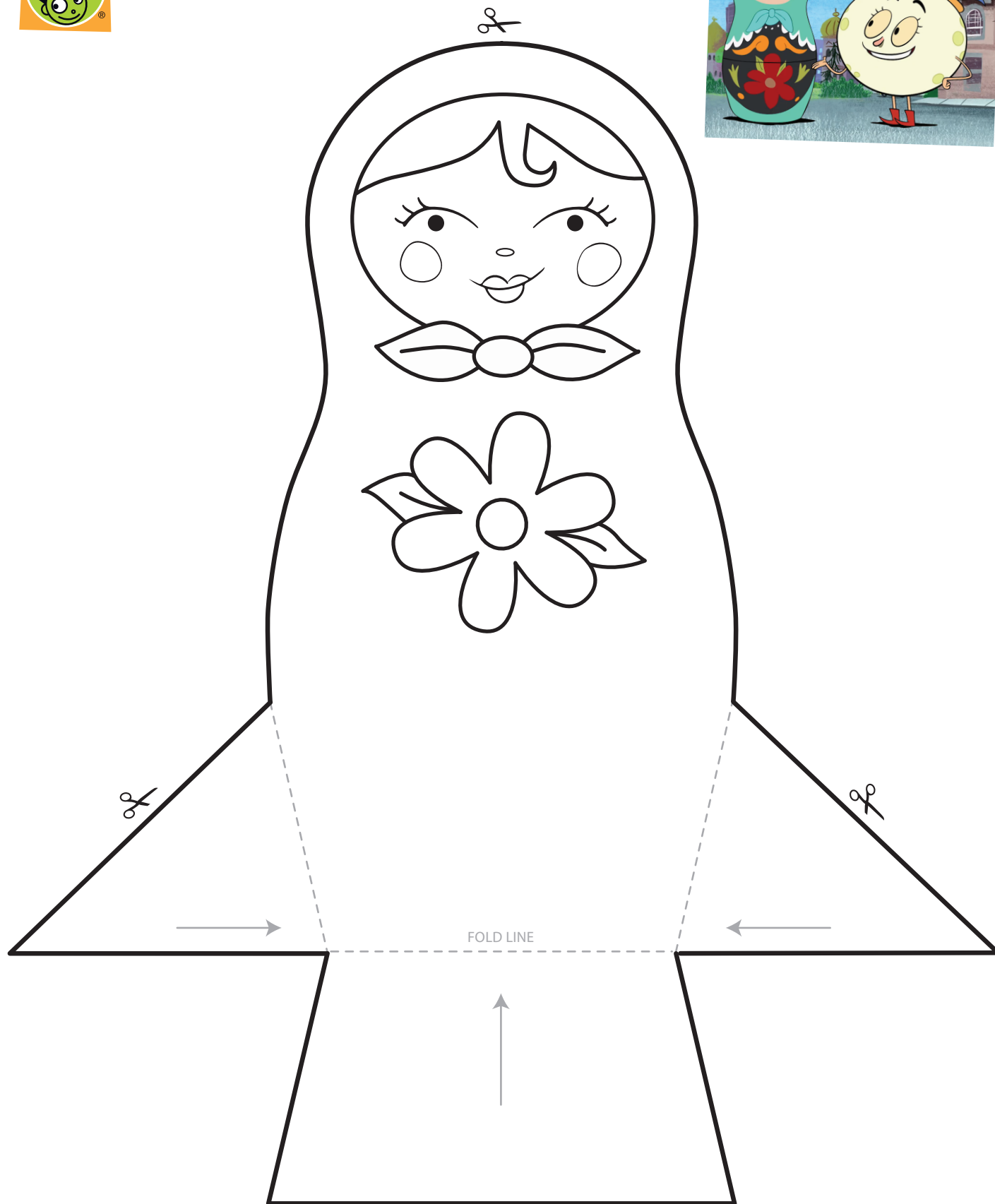
COMPLETE



MEDIUM DOLL



SMALL DOLL



LARGE DOLL



# AT-HOME LEARNING

## PBS KIDS Episode Reflection Guide Grades Pre-K–2

Directions: Take a moment to reflect on your learning from the PBS KIDS episode you watched. Then answer the questions below.

**What did you learn from this episode?** Discuss with your child key ideas and details. Briefly explain why these details are important to you, the community, and the world.

**How can you connect the learning in this episode to everyday learning at home?**

For example, if you watched an episode about counting, you and your child can expand this learning at home by counting items during daily routines like doing laundry or washing dishes.

**After watching this episode, what do you want to learn more about?**



## We don't replace reading, we complement reading

Reading is a skill and left untouched for several months, that skill will get weaker! The best part of free time reading is that you get to choose what you want to read!

**SORRY!**  
text messages  
and social  
media are  
typically too  
short to call  
reading

Mom? Mom...?  
**MOM?!**

## Screen zombies are real

Screen zombies are in a halfway state between being awake and being asleep. When you see a zombie, there are two main recommendations: if it's not bedtime, tell the zombie to turn off the screen and do something active. And if it is bedtime, go to bed!

## Find your balance

Screens can be used for things that are **BOTH** entertaining and informative. Find your balance: watch your movies, but also write a short story. Watch an episode of Nature about cute animals. Design a game. Video chat your grandparents.

Enjoy the game  
**AND** discuss  
strategy.

## Adjust your screens at night

We know that bright screens keep people awake—even if the brain and body are tired, bright lights send a strong wake-up signal. After the sun goes down, turn down the intensity of screens.

People with  
screens in their  
bedrooms sleep  
on avg 15 min less  
per night. **That's**  
almost 2 hrs less  
sleep per week!

# OUTDOOR EXPLORATION APPS



**Nature Cat's Great Outdoors** Go on a new adventure every day with the Nature Cat crew as they explore, discover and observe nature in their own backyard and beyond! Kids can observe the daily weather and use a compass, camera, sound recorder and journal to record each nature adventure. **FREE**



**Ready Jet Go! Space Explorer** Kids can explore the solar system and visit planets, stars and constellations with Jet and his friends. Go on a galactic journey with Jet, Sydney, Sean, Mindy and Sunspot from their backyard in Boxwood Terrace through space! **FREE**



**Wild Kratts Baby Buddies** Join Martin, Chris, and the Wild Kratts team on an African Savannah creature sitting adventure. These baby animals need a lot of attention and care, and with Wild Kratts Baby Buddies app, kids are in charge of feeding, washing, protecting and playing with each one.



**Splash and Bubbles Ocean Adventure** Join Splash, Bubbles, Dunk, and Ripple on a journey to the world's undersea habitats. Kids will discover the creatures that live there, learn about many different plants and animals, and build and decorate their very own ocean!



**Wild Kratts World Adventure** Kids can tilt and tap their way through six multi-level games that encourage exploration of habitats around the world. Focusing on science, each game lets kids observe, explore and use creature power suits to complete missions and help the Kratt Brothers.



**Outdoor Family Fun with Plum** Get ready for some Outdoor Family Fun with Plum! This app offers daily activities that get families outside, exploring their neighborhood and learning about nature. Spending time outdoors has many benefits and nature is all around – you just have to look! **FREE**



**Photo Stuff with Ruff** In this camera-based experience, children learn about science by taking pictures of different materials to complete silly scenes. Play it together and record and share your observations in fun, creative ways! **FREE**

Look for more APPS  
for iOS and Android  
at [pbskids.org/apps](https://pbskids.org/apps)



# PBS KIDS Learning Goals



## SOCIAL & EMOTIONAL LEARNING

|                                     |     |  |
|-------------------------------------|-----|--|
| Daniel Tiger's Neighborhood         | 2-4 | Social & Emotional Learning                          |
| Sesame Street                       | 2-5 | Social & Emotional Learning, Literacy, Math, Spanish |
| Clifford the Big Red Dog            | 3-5 | Social & Emotional Learning                          |
| Mister Rogers' Neighborhood         | 3-6 | Social & Emotional Learning                          |
| Arthur                              | 4-8 | Social & Emotional Learning, Social Studies          |
| Xavier Riddle and the Secret Museum | 5-8 | Social & Emotional Learning                          |

## LITERACY

|                 |     |                               |
|-----------------|-----|-------------------------------|
| Molly of Denali | 4-8 | Literacy (Informational Text) |
|-----------------|-----|-------------------------------|

## SOCIAL STUDIES, THE ARTS & MORE

|                           |     |   |
|---------------------------|-----|---|
| Pinkalicious & Peterrific | 3-6 | The Arts, Creative Expression                 |
| Let's Go Luna!            | 4-7 | Social Studies (World Cultures and Geography) |

### Digital-Only

|              |     |                             |
|--------------|-----|-----------------------------|
| Kart Kingdom | 3-6 | Systems Thinking            |
| Oh Noah!     | 4-8 | Spanish, Cultural Awareness |

## STEM (Science, Technology, Engineering & Math)

|  |     |  |
|--|-----|--|
| Curious George                             | 3-5 | Science Inquiry, Engineering, Math   |
| Elinor Wonders Why                         | 3-5 | Science Inquiry, Life/Earth Science, Engineering & Technology                  |
| The Cat in the Hat Knows a Lot About That! | 3-6 | Science Inquiry, Life/Earth/Physical Science, Engineering & Technology         |
| Dinosaur Train                             | 3-6 | Science Inquiry, Life/Earth Science  |
| Nature Cat                                 | 3-7 | Life/Earth Science   |
| Wild Kratts                                | 4-8 | Science Inquiry, Life Science  |
| Hero Elementary                            | 4-8 | Science Inquiry, Life/Earth & Space/Physical Science, Engineering & Technology |
| Odd Squad                                  | 5-8 | Math   |
| Ready Jet Go!                              | 5-8 | Science Inquiry, Earth & Space/Life/Physical Science, Engineering & Technology |

### Digital-Only

|                       |     |  |
|-----------------------|-----|--|
| The Ruff Ruffman Show | 4-8 | Science Inquiry, Physical Science, Engineering & Technology                  |
| Design Squad Nation   | 4-8 | Science Inquiry, Physical Science, Engineering                               |
| PBS KIDS Scratch Jr   | 5-8 | Computational Thinking   |
| SciGirls              | 6-8 | Science Inquiry, Life/Physical/Earth Science, Engineering & Technology, Math |



# STEAM Experiment & Activity Videos

Each of these STEAM videos, created by the educators and innovators at the Cade Museum for Creativity and Invention in Gainesville, is your child's hall pass to an exciting world of science, technology, creativity, and exploration. Videos feature hands-on experiments, and are accompanied by supply lists, and lesson plans, aligned with Florida's C-Palms and Next Generation Science Standards (NGSS).

## EARTH & SPACE SCIENCE

| Comets at The Cade/Space Travel & Colonization |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/EarthSpace">PBSbackpack.org/EarthSpace</a> |
|--|----------------|---|-------------|---|--|
| <b>Educational Standards</b>                   | <b>C-Palms</b> | Observe and describe water in its solid liquid and gaseous states.  | <b>NGSS</b> | Construct an argument with evidence that some changes caused by heating and cooling can be reversed and some cannot.  |  |
| Expanding Galaxy/Space Travel & Colonization   |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/EarthSpace">PBSbackpack.org/EarthSpace</a> |
| <b>Educational Standards</b>                   | <b>C-Palms</b> | Discover how materials can be altered to change some of their properties, while not all materials respond the same way to any one alteration. | <b>NGSS</b> | Investigate and evaluate experimental designs to provide evidence that fields exist between objects exerting forces on each other even though the objects are not in contact. |  |
| Birth of a Nebula/Space Travel & Colonization  |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/EarthSpace">PBSbackpack.org/EarthSpace</a> |
| <b>Educational Standards</b>                   | <b>C-Palms</b> | Identify the Sun as a star that emits energy, some in the form of light.  | <b>NGSS</b> | Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distance from Earth.                              |  |
| Rocket/Space Travel & Colonization             |                |   |             | 4+  | See video at <a href="https://PBSbackpack.org/EarthSpace">PBSbackpack.org/EarthSpace</a> |
| <b>Educational Standards</b>                   | <b>C-Palms</b> | Recognize that objects are pulled towards the ground unless something holds them up.  | <b>NGSS</b> | Make observations or predictions on an object to provide evidence that a pattern can be used to predict future motion.  |  |

## MATHEMATICS & DESIGN

| Moving Character in Scratch/Codes: Designs & Patterns |                |   |             | 10+  | See video at <a href="https://PBSbackpack.org/MathematicsDesign">PBSbackpack.org/MathematicsDesign</a> |
|---|----------------|---|-------------|--|--|
| <b>Educational Standards</b>                          | <b>C-Palms</b> | Explain that computers model intelligent behavior.    | <b>NGSS</b> | Optimize design solution.  |  |
| Spot/Codes: Measurements & Calculations               |                |   |             | 10+  | See video at <a href="https://PBSbackpack.org/MathematicsDesign">PBSbackpack.org/MathematicsDesign</a> |
| <b>Educational Standards</b>                          | <b>C-Palms</b> | Evaluate different file types for different purposes. | <b>NGSS</b> | A solution needs to be tested and modified to improve it.  |  |
| Drum Set/Music: Acoustics/Wave                        |                |   |             | 10+  | See video at <a href="https://PBSbackpack.org/MathematicsDesign">PBSbackpack.org/MathematicsDesign</a> |
| <b>Educational Standards</b>                          | <b>C-Palms</b> | Evaluate different file types for different purposes. | <b>NGSS</b> | A situation people want to change or create can be approached as a problem to be solved through engineering. |  |
| Coral/Design & Patterns: Agriculture/Life Sciences    |                |   |             | 10+  | See video at <a href="https://PBSbackpack.org/MathematicsDesign">PBSbackpack.org/MathematicsDesign</a> |
| <b>Educational Standards</b>                          | <b>C-Palms</b> | Evaluate different file types for different purposes. | <b>NGSS</b> | Optimize design solution.  |  |
| Animation/Codes: Design & Patterns                    |                |   |             | 10+  | See video at <a href="https://PBSbackpack.org/MathematicsDesign">PBSbackpack.org/MathematicsDesign</a> |
| <b>Educational Standards</b>                          | <b>C-Palms</b> | Evaluate different file types for different purposes. | <b>NGSS</b> | A situation people want to change or create can be approached as a problem to be solved through engineering. |  |

## FORCE & MOTION

| House (Lego)/Structural Design                     |                |   |             | 5+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
|--|----------------|---|-------------|---|--|
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Evaluate different file types for different purposes.   | <b>NGSS</b> | Optimize design solution.   |  |
| Vertical Jump/Who's Hot/Simple Mechanics           |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Explore the law of gravity by demonstrating that gravity is a force that can be overcome.                                   | <b>NGSS</b> | Each force acts on one particular object and has both a strength and a direction.   |  |
| Vertical Jump/Propulsion & Locomotion              |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Explore the law of gravity by demonstrating that gravity is a force that can be overcome.                                   | <b>NGSS</b> | Objects in contact exert forces upon each other.  |  |
| Jumps/Propulsion & Locomotion                      |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Identify some basic forms of energy such as light, heat, sound, electrical, and mechanical.                                 | <b>NGSS</b> | Pushes and pulls can have different strengths and directions.   |  |
| Newton's 2nd Law of Motion/Propulsion & Locomotion |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Investigate the effect of applying various pushes and pull on different objects.  | <b>NGSS</b> | Defining Engineering Problems.  |  |
| Newton's 3rd Law of Motion/Propulsion & Locomotion |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Recognize that objects are pulled toward the ground unless something holds them up.   | <b>NGSS</b> | For any pair of interacting objects, the force of the first object exerted on the second object is equal to the strength of the second object that exerts on the first but in the opposite direction. |  |
| Newton's 1st Law of Motion/Propulsion & Locomotion |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Identify familiar forces that cause objects to move, such as pushes and pulls, including gravity acting on falling objects. | <b>NGSS</b> | Cause-and-effect relationships are routinely identified.  |  |
| Marshmallow Defenders/Propulsion & Locomotion      |                |   |             | 6+  | See video at <a href="https://PBSbackpack.org/ForceMotion">PBSbackpack.org/ForceMotion</a> |
| <b>Educational Standards</b>                       | <b>C-Palms</b> | Evaluate different file types for different purposes.   | <b>NGSS</b> | For any pair of interacting objects, the force of the first object exerted on the second object is equal to the strength of the second object that exerts on the first but in the opposite direction. |  |



# STEAM Experiment & Activity Videos

## ELECTRICITY

### Electrolyte Ball Science Fun/Electrical Systems & Circuits

6+

See video at [PBSbackpack.org/Electricity](https://PBSbackpack.org/Electricity)

**Educational Standards**

**C-Palms**

Recognize and explore how cells of all organisms undergo similar process to maintain homeostasis, including extracting energy.

**NGSS**

All living things are made up of cells, said to be the smallest living unit.

## LIFE SCIENCE

### Reaction Time/Homeostasis

6+

See video at [PBSbackpack.org/LifeScience](https://PBSbackpack.org/LifeScience)

**Educational Standards**

**C-Palms**

Recognize and explore how cells of all organisms undergo similar process to maintain homeostasis, including extracting energy.

**NGSS**

Use a model to test interactions concerning the functioning of a natural system.

### Pickles In America/Friend & Foe, or Germs!/Agriculture

6+

See video at [PBSbackpack.org/LifeScience](https://PBSbackpack.org/LifeScience)

**Educational Standards**

**C-Palms**

Investigate and describe the many physical and chemical changes affected by temperature.

**NGSS**

Explore how food moves through a series of chemical reactions within individual organisms.

## ENERGY

### Air Conditioned Shoulder Pads/Heating & Cooling

6+

See video at [PBSbackpack.org/Energy](https://PBSbackpack.org/Energy)

**Educational Standards**

**C-Palms**

Describe the changes water undergoes when it changes state, through heating and cooling, my using familiar scientific terms such as melting, freezing, boiling, evaporation, and condensation.

**NGSS**

Every human-made product is designed by applying some knowledge of the natural world, and is built using materials from the natural world.

### Shoulder Pads, Reaction Time/Heating & Cooling

6+

See video at [PBSbackpack.org/Energy](https://PBSbackpack.org/Energy)

**Educational Standards**

**C-Palms**

Recognize that animals including humans use energy from food.

**NGSS**

Every human-made product is designed by applying some knowledge of the natural world, and is built using materials from the natural world.

### Who's Hot/Heating & Cooling

6+

See video at [PBSbackpack.org/Energy](https://PBSbackpack.org/Energy)

**Educational Standards**

**C-Palms**

Investigate and explain that electrical energy can be transformed into heat, light, and sound energy as well as the energy of motion.

**NGSS**

Make measurements and observation of materials based on their properties.

### Batteries, Stored Power/Conversions: Electrical Systems & Circuits

6+

See video at [PBSbackpack.org/Energy](https://PBSbackpack.org/Energy)

**Educational Standards**

**C-Palms**

Identify and classify materials that conduct electricity and materials that do not.

**NGSS**

Energy can be transferred in various ways between objects.

## MATTER

### Marion Donovan & Floaters/Materials Science Engineering

6+

See video at [PBSbackpack.org/Matter](https://PBSbackpack.org/Matter)

**Educational Standards**

**C-Palms**

Changes in Matter can occur physically or chemically.

**NGSS**

Make observations to construct an evidence-based account of how an object is made of a small set of pieces can be disassembled and made into a new object.

### Sidewalk Chalk/Materials Science Engineering

4+

See video at [PBSbackpack.org/Matter](https://PBSbackpack.org/Matter)

**Educational Standards**

**C-Palms**

Investigate and describe that many physical and chemical changes are affected by temperature.

**NGSS**

Cause-and-effect relationships may be used to predict phenomena in natural or designed systems.

### Making Toothpaste/Materials Science Engineering

5+

See video at [PBSbackpack.org/Matter](https://PBSbackpack.org/Matter)

**Educational Standards**

**C-Palms**

Observe and describe water in its solid and liquid and gaseous states.

**NGSS**

When two or more substances are mixed, a new substance with different properties may be formed.

### Popsicle: How Cool?/State of Matter

4+

See video at [PBSbackpack.org/Matter](https://PBSbackpack.org/Matter)

**Educational Standards**

**C-Palms**

Investigate and describe that many physical and chemical changes are affected by temperature.

**NGSS**

Analyze testing using different materials.

### Fizzing Cade Dust/Releasing of Stored Energy

6+

See video at [PBSbackpack.org/Matter](https://PBSbackpack.org/Matter)

**Educational Standards**

**C-Palms**

Compare physical and chemical changes in matter.

**NGSS**

When two or more different substances are mixed, a new substance with different properties may be formed.



The mission of The Cade Museum is to transform communities by inspiring and equipping future inventors, entrepreneurs, and visionaries.

For even more resources, sign up for our e-newsletter at [pbs.org/parents/newsletter](https://pbs.org/parents/newsletter).

To learn more and download PBS Backpacks in added core subjects, visit [PBSbackpack.org](https://PBSbackpack.org). To contact us with questions, suggestions, or to share photos of your family learning with the digital backpack, email us [education@wuft.org](mailto:education@wuft.org).

The WUFT Education Team



# APP LEARNING GOALS



## MULTIPLE LEARNING GOALS FOR KIDS 2-8



Free learning games with your favorite PBS KIDS characters anytime, anywhere!



Thousands of free videos from PBS KIDS, the #1 educational media brand for kids.

## SOCIAL EMOTIONAL DEVELOPMENT

|                            |     |                              |
|----------------------------|-----|------------------------------|
| Daniel Tiger's For Parents | 2-5 | Social Emotional Development |
|----------------------------|-----|------------------------------|

## LITERACY

|                       |     |          |
|-----------------------|-----|----------|
| Dinosaur Train A to Z | 3-6 | Literacy |
|-----------------------|-----|----------|

|                 |     |                    |
|-----------------|-----|--------------------|
| Molly of Denali | 4-8 | Informational Text |
|-----------------|-----|--------------------|

## ARTS, CREATIVITY AND MORE

|                       |     |            |
|-----------------------|-----|------------|
| PBS KIDS Kart Kingdom | 4-8 | Creativity |
|-----------------------|-----|------------|

|                |     |                |
|----------------|-----|----------------|
| PBS KIDS Party | 4-8 | Healthy Habits |
|----------------|-----|----------------|

|                   |     |            |
|-------------------|-----|------------|
| PBS KIDS Stickers | 4-8 | Creativity |
|-------------------|-----|------------|

iOS Only

|                    |     |            |
|--------------------|-----|------------|
| Plum's Creaturizer | 6-9 | Creativity |
|--------------------|-----|------------|

## STEM (Science, Technology, Engineering & Math)

|                       |     |      |
|-----------------------|-----|------|
| Cyberchase 3D Builder | 6-9 | Math |
|-----------------------|-----|------|

|                        |     |                 |
|------------------------|-----|-----------------|
| Cyberchase Shape Quest | 6-9 | Math — Geometry |
|------------------------|-----|-----------------|

|  |     |      |
|--|-----|------|
| Dinosaur Train Classic in the Jurassic Jr. | 3-6 | Math |
|--|-----|------|

|                   |     |      |
|-------------------|-----|------|
| Fetch! Lunch Rush | 4-8 | Math |
|-------------------|-----|------|

iOS Only

|                                |     |               |
|--------------------------------|-----|---------------|
| Jet's Bot Builder: Robot Games | 4-8 | Space Science |
|--------------------------------|-----|---------------|

|                             |     |               |
|-----------------------------|-----|---------------|
| Nature Cat's Great Outdoors | 6-8 | Earth Science |
|-----------------------------|-----|---------------|

|                              |     |                      |
|------------------------------|-----|----------------------|
| Outdoor Family Fun with Plum | 6-9 | Nature, Life Science |
|------------------------------|-----|----------------------|

|                      |     |      |
|----------------------|-----|------|
| PBS KIDS Measure Up! | 2-5 | Math |
|----------------------|-----|------|

|                    |     |        |
|--------------------|-----|--------|
| PBS KIDS ScratchJr | 5-8 | Coding |
|--------------------|-----|--------|

|                          |     |                |
|--------------------------|-----|----------------|
| PBS Parents Play & Learn | 2-5 | Math, Literacy |
|--------------------------|-----|----------------|

|                       |     |                  |
|-----------------------|-----|------------------|
| Photo Stuff with Ruff | 4-8 | Material Science |
|-----------------------|-----|------------------|

|                      |     |         |
|----------------------|-----|---------|
| Play & Learn Science | 2-5 | Weather |
|----------------------|-----|---------|

|                   |     |                      |
|-------------------|-----|----------------------|
| Plum's Photo Hunt | 6-9 | Life Science, Nature |
|-------------------|-----|----------------------|

iOS Only

|                    |     |              |
|--------------------|-----|--------------|
| Plum's Creaturizer | 6-9 | Life Science |
|--------------------|-----|--------------|

iOS Only

|                              |     |               |
|------------------------------|-----|---------------|
| Ready Jet Go! Space Explorer | 4-8 | Space Science |
|------------------------------|-----|---------------|

|                            |     |               |
|----------------------------|-----|---------------|
| Ready Jet Go! Space Scouts | 4-8 | Space Science |
|----------------------------|-----|---------------|

|                                 |     |                              |
|---------------------------------|-----|------------------------------|
| The Cat in the Hat Builds That! | 3-5 | Science Inquiry, Engineering |
|---------------------------------|-----|------------------------------|



# APP LEARNING GOALS



## PAID APPS at [pbskids.org/apps](http://pbskids.org/apps)

### SOCIAL EMOTIONAL DEVELOPMENT

|   |     |   |
|---|-----|---|
| Daniel Tiger's Day & Night                            | 2-5 | Social Emotional Development — Routines       |
| Daniel Tiger's Grr-ific Feelings                      | 2-5 | Social Emotional Development — Feelings       |
| Daniel Tiger's Stop & Go Potty                        | 2-5 | Social Emotional Development — Potty Training |
| Daniel Tiger's Neighborhood: Play at Home with Daniel | 3-5 | Social Emotional Development                  |
| Daniel Tiger's Storybooks                             | 2-5 | Social Emotional Development                  |

### LITERACY

|                           |     |          |
|---------------------------|-----|----------|
| SUPER WHY! ABC Adventures | 3-6 | Literacy |
| Super Why! Phonics Fair   | 3-6 | Literacy |
| Super Why! Power to Read  | 3-6 | Literacy |

### ARTS, CREATIVITY & MORE

|                    |     |   |
|--------------------|-----|---|
| Pinkalicious Party | 4-6 | Creative Process, Art, Design, Creativity, Roleplaying, Music |
|--------------------|-----|---|



### STEM (Science, Technology, Engineering & Math)

|                                    |     |   |          |
|------------------------------------|-----|---|----------|
| Odd Squad: Blob Chase              | 6-8 | Math                                      |          |
| Peg + Cat: The Tree Problem        | 3-6 | Math                                      |          |
| Splash and Bubbles Ocean Adventure | 4-7 | Ocean Science                             |          |
| Wild Kratts Baby Buddies           | 4-8 | Social Emotional Learning, Animal Science |          |
| Wild Kratts Creature Math          | 4-8 | Math                                      | iOS only |
| Wild Kratts Rescue Run             | 4-8 | Animal Science                            |          |
| Wild Kratts World Adventure        | 4-8 | Animal Science                            |          |



All apps are available  
for all devices unless  
otherwise indicated

