

## Ready To Learn | K-4 Workshop Offerings

### **My Oh My, A Butterfly – Kindergarten**

Let's take a journey through the butterfly life cycle. Students will have the opportunity to reenact the four stages of the life cycle; including the egg, larva, pupa, and butterfly. They will also end the lesson by making their own diagram of the butterfly life cycle using pasta!  
RL.K.1, SL.K.1, SL.K.2, K-LS1-1, K-ESS2-2

### **Curious George Goes Camping – Kindergarten**

This lesson is designed to teach children about tracking animals in the wild. Through a video clip, read aloud, and several activities, students will learn about nature and even make their own unique animal tracks.

SL.K.1, SL.K.2, L.K.6, NGSS-K-ESS2-2

### **Give It a Push, Give It a Pull – Kindergarten**

In this lesson, students are given the opportunity to observe, measure, and describe how pushes and pulls of various objects are used to produce and control motion. They will plan and conduct simple hands-on investigations about motion and begin to understand the relationship of cause and effect.

K-PS2-1, K-PS2-2, 3-PS2-1, 3-PS2-2

### **Little Cloud – Kindergarten**

In this lesson, children will use science and their imaginations to explore clouds. They will learn about the water cycle and why a cloud "rains." Then they put this knowledge to the test, by performing a science experiment to try to make their own clouds rain.

K-ESS2-1, K-ESS3-2

### **Pete the Cat and His Four Groovy Buttons – Kindergarten**

Count down with Pete in this story about four groovy buttons. Children are introduced to simple subtraction in this fun lesson. Not only does Pete lose buttons, but so does each child as they participate in a story reenactment. They will continue to practice math skills through various activities.

K.CC.B.4A, K.OA.A.1, K.OA.A.2

### **Rainbow Fish Discovers the Deep Sea – Kindergarten**

This lesson takes the children on an underwater math adventure. Through story-telling and story development, the children will practice graphing, adding, and subtracting. They will also have the opportunity to investigate different and unique sea creatures.

K.MD.A.2, K.MD.B.3, K.OA.A.1, K.OA.A.2, K.OA.A.5

The Ready To Learn service is a nationwide effort using on air, online, and print resources to help parents, caregivers, and childhood educators prepare children for success. As part of the KNPB Ready To Learn service, we offer free children's workshops in classrooms.

An engaging video, a read aloud, and fun hands-on activities are integrated into the workshop. Lessons are aligned to the CCSS and NGSS.

All materials are supplied, and an educational professional will facilitate the 45-60 minute workshop.

For more information or to schedule a workshop please contact Joy Foremaster at [readytolearn@knpb.org](mailto:readytolearn@knpb.org) or 775.682.7823.

### **Reduce, Reuse, Recycle! – Kindergarten**

Students develop an understanding of the 3 R's – Reduce, Reuse and Recycle. They will learn that when something is recycled, its materials are used again.

K-ESS3-3, RI.K.4, RI.K.2

### **The Cow That Went Oink – Kindergarten**

There was once a cow that could only oink and a pig that could only moo-but soon they were the envy of the other animals in the barn. This lesson is designed to teach children about the different animals that live on a farm and the food they provide. Students will explore the farmyard by pretending to milk a cow and participating in an egg race.

SL.K.1, SL.K.2, L.K.6

## Ready To Learn | K-4 Workshop Offerings - Continued

### **Bones – Grade 1**

Let's take a look at what is inside our bodies. Our bones are amazing. In this lesson, students will get the opportunity to discover what a bone looks like all the way through. They will also be able to explore bone sizes, and their important functions. Let's make NO BONES about it...your students will have fun learning about their super skeletons!

LS1.A, CCSS:RI.1.1, RI.1.2

### **Discover Pumpkins – Grade 1**

Pumpkins are tough enough to handle all of the hands-on activities presented in this lesson. Children will explore math and science concepts through a video clip, read aloud, and several engaging activities. Students will discover why a pumpkin floats and how to efficiently count pumpkin seeds using place value.

1.MD.C.4, 1.MBT.B.2

### **Glowing, Glowing, Gone – Grade 1**

This lesson is designed to teach children to appreciate creatures in their surrounding environment. Through a video clip, read aloud, and several activities, students will discover why a firefly has its blinking light. The lesson includes an introduction to synonyms and writing an opinion piece.

LS1.A, RL.1.1, RL.1.2, RL.1.3, W.1.1

### **Mirror, Mirror – Grade 1**

Using flashlights and mirrors learners explore how light travels. They investigate how light is reflected differently by curved and rough surfaces and why mirrors are the best surfaces for seeing themselves.

1-PS4-2, 1-PS4-3

### **Moon in Motion – Grade 1**

In this lesson, students will explore how the moon moves across the sky at night and how the moon changes in a cycle that lasts about a month. Through a video clip, read aloud, and scientific exploration, students will be introduced to four phases of the moon. The culminating activity is demonstrating their knowledge by using Oreo cookies. Of course they get to eat the "moon!"

1-ESS1-1, RL.1.1, RL.1.2, RL.1.3

### **Spiders, Aaaaarrgh! – Grade 1**

Do you have arachnophobia? Students will explore the characteristics of a spider through a fictional book, an informational book, a short video clip, and an art activity. After sharing the read aloud, students will retell the story through drama. They will compare and contrast books that tell stories and books that give information. The lesson ends with a fun art project.

RL.1.1, RL.1.2, RL.1.3, RL.1.5, LS1.A

### **A Koala is NOT a Bear! – Grade 2**

Animals possess certain needs that its habitat meets. Students will gain knowledge about koalas and their environment through viewing a short video clip, exploring factual information with supporting photos, listening to the read aloud *Koala Lou*. The culminating activity is a short writing assignment and art project.

RL.2.3, RL.2.5, 2-LS4-1

### **Going Batty – Grade 2**

This lesson is designed to integrate students' knowledge of living things – bats and birds. Through various activities students will discover the differences and similarities of these two animals. The lesson includes completing a KWL chart, listening to the read aloud *Stellaluna*, viewing a short video clip, utilizing a Venn diagram to organize information, and finally playing an active game that demonstrates echolocation.

RL.2.1, 2-LS4, W.2.8

### **Over in the Ocean – Grade 2**

Enter the world of the coral reef through this engaging lesson about the members of the reef community. Students will observe the organisms and describe the different structures of the animals. As they make comparisons, they will ask and answer questions about the coral reef inhabitants by using scientific resources.

2-LS2-1, 2-LS4-1

### **Race for Survival – Grade 2**

If you could choose any color to be, what color would you choose? A chameleon has the ability to be any color it wants so it can blend into its surroundings. Students will investigate camouflage through a short video clip, read aloud, and hands-on activity. Data will be recorded, analyzed, and interpreted. The culminating activity is a fun art activity.

2-LS2-1, 2-LS4-1

### **Toy Chemistry – Grade 2**

Is it a liquid or a solid? By mixing two liquids together, kids produce a chemical reaction that results in a stretchy, slippery polymer that appears to be both a liquid and solid. They test and observe what happens when they perform experiments with the "Oobleck."

2-PS1-1, SL.2.1, SL.2.2

### **Weathering and Erosion – Grade 2**

In this lesson, students learn about erosion and weathering through a hands-on Skittles experiment. Students discover weathering and erosion are two different processes but that they can occur at the same time due to water, wind, and air.

2-ESS1-1

# Ready To Learn | K-4 Workshop Offerings - Continued

## Wiggling Worms – Grade 2

Worms are hard at work down in the ground. The lesson encourages students to collect data by measuring and observing live earthworms, labeling drawings, and drawing conclusions about the earthworm's life. The culminating activity is to write about "a day in the life of an earthworm."

2-LS2-1, 2-LS4-1, W.2.8

## Like Fruit? Thank A Bee! – Grade 2

Using Cheetos and post-it's students will be able to visualize how bees pollinate flowers. Using an "edible" hands-on activity, students will learn about the important role pollen plays in producing the foods we eat, and plant reproduction.

2-LS2-2

---

## Canine House of Cards – Grade 3

The challenge is to construct a strong building out of tape and index cards, using one common architectural shape. This building needs to be stable and hold at least one dog biscuit. Students will be introduced to the engineering design process through a short video clip, read aloud, and engaging hands-on activity.

3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, RI.3.1, RI.3.4, RI.3.7

## Eat Like a Bird – Grade 3

The challenge is to collect "food" using different types of "beaks" and to find the food that's easiest to pick up. Students will discover how the shape of the beak determines what type of food the bird will eat. The lesson includes a video clip, read aloud, and hands-on investigation. Students record, analyze, and interpret data.

3-LS4-1, 3-ESS2-1, W.3.8

## Float My Boat – Grade 3

The challenge is to create an aluminum foil boat that can hold pennies without sinking. Students will examine how a boat's design can affect its buoyancy through a short video clip, a read aloud, and an investigation. The lesson focuses on the engineering design process where students build a physical model, collect and analyze data, and demonstrate an understanding of what real engineers do.

3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, RI.3.1, RI.3.4, RL.3.7

## Fossils Tell of Long Ago – Grade 3

Fossils are clues to our past and provide a valuable record of the plant and animal life millions of years ago. In this lesson, students will observe real fossils and think about how it was formed and where it lived. As the read aloud book is being shared, students discover how fossils form and that very few plants and animals become fossilized.

3-LS4-1

## Inspiring Acts of Kindness – Grade 3

What is our responsibility in the world? This lesson inspires students to think of small ways to do something for the common good. After listening to the read aloud *Miss Rumphius*, students will demonstrate the understanding of the word philanthropy through writing. During the workshop, students will explore blending color and create a simple painting.

RL.3.1, RL.3.2, RL.3.7, L3.3.A

## Sharing Cookies – Grade 3

Ma bakes a dozen cookies for her children, but the doorbell rings and they must share their cookies with friends. Students will explore the concept of fractions and easy division through a video clip, the read aloud *The Doorbell Rang*, and a hands-on activity.

3.OA.A.2, 3.NF.A.1

## Snap, Crackle, and Jump – Grade 3

Charge a balloon and have some fun moving objects without touching them. In this lesson, students will be involved in exploratory activities to learn about static electricity. They will collect, record, and evaluate data through drawing pictures and writing.

3-PS2-3, 3-LS4-1, 3-ESS2-1, W.3.8

I heard my students say, 'This is the coolest experiment EVER!' They learned the water cycle." Kindergarten, Spanish Springs ES, Sparks

"I can't decide which of your workshops my favorite is. I am always so impressed every time you come. This is a wonderful program that I hope to be able to continue with for many years to come. Thank you Channel 5!"

1<sup>st</sup> Grade, Spanish Springs ES, Sparks

"Hands on excitement! Your lessons engage the children the entire time. We wish we could have more KNPB workshops!"

2<sup>nd</sup> Grade, Peavine, Reno

"Great visuals for division practice. Love how this lesson incorporated reading, math, and being creative."

3<sup>rd</sup> Grade, Fritsch ES, Carson City

## Ready To Learn | K-4 Workshop Offerings - Continued

### Feeding Frenzy – Grade 4

How do bugs eat? Different bugs have specialized mouths for the food they eat. Students explore how insect mouthparts are specific to their food sources. Using several tools and models students will realize how insects and plants support each other.

4-LS1-1

### Investigating Forces – Grade 4

A collision occurs when a baseball bat hits a baseball, or a tennis racket hits a tennis ball. What would happen if a marble collided with a paper dragon at the end of a ramp? Students will explore the effect of force upon an object in this fun hands-on lesson.

4-PS3-2, 4-PS3-3, 4-PS3-4

### Pinhole Cameras and Eyes – Grade 4

What do a pinhole camera and our eyes have in common? In this activity, students will use a pinhole camera to explore their sense of sight and will come to understand how the parts of the eye form upside down images.

4-PS4-2, 4-LS1-2

### Pop Bottle Waves – Grade 4

A plastic soda bottle will help students observe, draw, and write about how waves are shaped. Through an engaging game, students are given the opportunity to move around and participate in a guided model of amplitude and wavelength. Let the waves begin to rock and roll!

W.4.2, W.4.2b, 4-PS4-1

### Sir Cumference and the Great Knight of Angleland – Grade 4

Students go on a quest to discover acute, obtuse, right, and straight angles in the delightful lesson. As a culmination to the lesson, students will follow directions using different angles to create a path for the knight's quest to find the king. Join the adventure!

4.G.A.1

### Spool Racer – Grade 4

In this lesson, students will explore potential and kinetic energy by making a spool racer. This tabletop vehicle stores energy in the elasticity of a rubber band. Get ready, set, and roll!

4-PS3-2, 4-PS3-3, 4-PS3-4

### The Nose Knows – Grade 4

Animals are super sniffers! Imagine a nose over 6 ½ feet long, like an elephant's. Through hands-on activities, students will investigate how animals send and receive information through their sense of smell.

4-LS1-1, 4-LS1-2

This lesson was so entertaining. The content integration was masterful! Thanks for the adventure this afternoon!"

Meneley ES, Douglas County

"Students were able to make connections with the workshop topic and what we have done in class on the topic."

Fremont ES, 4<sup>th</sup> Grade, Carson City

"This lesson had a great balance of vocabulary and concept development with interactive learning for the kids. They were really engaged and enjoyed it all!"

"I absolutely love the way the stories, projects, and tasks work so well with our curriculum and standards. The kids are so engaged and excited to participate."

Southside ES, Elko

"Loved the use of a book, technology, hands on and listening skills. Thank you!"

4<sup>th</sup> Grade, Jesse Hall ES, Reno