Spring 2020
EDUCATOR Resource Guide

Download your electronic copy: putnam.org/education

Putnam!
You belong here!

563.324.1933 | 1717 W 12th Street | Davenport, IA 52804 | putnam.org
BOOK YOUR EXPERIENCE IN 3 EASY STEPS

1. **VISIT** [www.putnam.org/Education/Educators/Plan-a-Field-Trip](http://www.putnam.org/Education/Educators/Plan-a-Field-Trip) to begin your field trip experience

2. **CHOOSE YOUR DATE** Please have 2 or 3 preferred dates and times available

3. **THREE WAYS TO BOOK YOUR EXPERIENCE**
   - Contact our Education Services Coordinator Bridget Boyd-Carlson at (563) 336-7308
   - Email your completed reservation form to bboyd-carlson@putnam.org
   - Complete our NEW online reservation form at [www.putnam.org/ftr](http://www.putnam.org/ftr)

   *Note: Your experience cannot be confirmed until a completed form has been received and you have received a confirmation number.*

**VISIT THE PUTNAM!**

**Student Pricing** *(per student)*

One complimentary teacher/chaperone per 10 students is **required** – additional chaperones will need to pay School Group Adult pricing. Special needs teachers, please contact us so we can accommodate you.

<table>
<thead>
<tr>
<th>Museum Admission (Self-Guided Tour) ($4)</th>
<th>Giant Screen Movie Add-On ($5)</th>
<th>Giant Screen Movie ONLY ($5)</th>
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**Additional School Group Adult Pricing** *(Beyond the 1:10 adult/student ratio.)*

*NOTE: Additional school group adults **must** identify the school they are with to receive the school group adult price.*

<table>
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<th>Giant Screen Movie Add-On ($5)</th>
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**DID YOU KNOW?**

Funding assistance is available for your field trip! *(Subsidy is based on your free/reduced rate lunch percentages. Please have this rate ready when you contact the Putnam!)*

The Putnam Museum & Science Center thanks the following groups for providing funds for our school groups:

- **Arconic Foundation**
- **Doris & Victor Day Foundation, Inc.**
- **Rauch Family Foundation I**
- **Kim Findlay Education Access Fund**
IN MUSEUM PROGRAMS

The Putnam Education Department’s approach to curricula is informed by national, Iowa and Illinois state standards. We strive to assist and support our community teachers, parents and school administration with the task of helping students meet and/or exceed curriculum standards and benchmarks. For many educators and parents it is a daunting task to complete today’s educational requirements, all while trying to present material in a manner that will resonate with students and their various learning styles. Partner with the Putnam to access tools to enhance the learning of your students. As an area leader in non-formal education the Putnam In Museum Programs encourage hands-on experiences, utilization of technology, student-centered learning and an overall dynamic experience!

NOTE: Program costs vary from $45 - $85. (Programs may be adapted to other ages. Please ask when you book.)

IMPORTANT: Average length of program is 45 minutes with a capacity of 30 students per program.

ANCIENT EGYPT: ISIS NEFERIT

A two-part program! First, a costumed interpreter makes a dramatic presentation on the life of this temple chantress. This peek at life in ancient Egypt also includes a “demonstration” of the mummification process! Then a Museum Educator leads you to the Egyptian Gallery to give detail on some of the most asked about artifacts and will be available to answer student questions.

Exhibit connection: Unearthing Ancient Egypt | Grades 3-5
Movie: Mummies: Secrets of the Pharaohs 3D

THE CASE OF THE TALKING SKULLS

Animal skulls are great tools for teaching students about the diversity of wildlife and the special role each animal plays in its natural habitat. Your students will learn to “read” the clues that skulls provide by participating in these lively hands-on lessons: Predator or prey? Herbivore, carnivore or omnivore? Nocturnal or diurnal?

Exhibit connection: Hall of Mammals and Black Earth | Big River Grades 3-8 | Movie: Tiny Giants 3D

CIRCUITS

Copper tape, Batteries, and LED’S oh my!! Simplicity is key when it comes to making electricity. Let us help teach your students in an electrifying class all about how simple circuits work. Cost of materials may apply.

Exhibit connection: Science Center | Grades 3-5
Movie: Robots 3D

EVERY DROP COUNTS

Water is needed to produce everything we use today, but how much water do we really use? Can we “reuse” water or how does a water filter keep our water clean? What are some of the pollutants in our watershed and what can we do to help? Learn to become aware of our local environment through these hands-on demonstrations of water activities.

Exhibit Connection: Black Earth | Big River | Molecules in Motion Grades 3-5 | Movie: Oceans: Our Blue Planet 3D

Coral Reefs & Beyond

Discover the secret life of animals under the sea! Why do starfish and sea urchins have tube feet? Find out with the Putnam! Hands-on activities and the exploration of light and pressure — not to mention how we can all do our part to protect the ocean — waits!

Exhibit Connection: Ocean Experience | Kindergarten - Grade 5
Movie: Oceans: Our Blue Planet 3D

Stranger in a Strange Land

A total immersion experience transports your students to Ellis Island in the early 1900s. Students will be engaged in a role-play interrogation as they attempt to gain entry into the United States. This presentation includes actual stories of immigrants and their journeys to this region. A pre-visit Ship’s Manifest activity enhances your students’ involvement.

Exhibit connection: River, Prairie & People | Grades 3-8

Weather Rocks

Get ready to twist, rumble and…get wet? Exploring the earth’s wonders of weather. Participants create their own tornados, examine hurricanes and electrical storms. Classes will also take a look at how clouds are formed in a unique demonstration.

Movie: Tornado Alley 3D | Grades 3-5

Innovations of Engineering

Engineers work together to solve the major challenges of our time and shape the world of today and tomorrow. Introduce your students to the engineering design process using design challenges that promote teamwork, critical thinking, creativity and problem solving. What problems in our world will your students help to solve?

Exhibit Connection: Science Center | Kindergarten - Grade 8
Movie: Dream Big 3D

Our Changing Planet

Why does our planet look the way it does? Discover what our Earth looked like millions of years ago and the forces working constantly to change our planet. They are rarely seen or felt but can sometimes make themselves known in explosive ways! In this program learn all about the tectonic plates built into Earth’s crust and how they cause earthquakes, tsunamis, and volcanoes on the surface.

Movie: Volcanoes 3D | Grades 3-8

NOTE: Program costs vary from $45 - $85. (Programs may be adapted to other ages. Please ask when you book.)

IMPORTANT: Average length of program is 45 minutes with a capacity of 30 students per program.

Visit our website for more program details!
putnam.org/Education
Dig in to MORE at the Putnam

**Unearthing Ancient Egypt**

No trip to the Putnam is complete without visiting our most iconic gallery – home of our two mummies. Step into an ancient Egyptian tomb, where you will learn how the people lived and what was required for a pleasant afterlife. Visit an interactive station to explore the mummies inside and out through the magic of CT imagery. Find out how forensic anthropologists reconstruct facial features.

**ALL NEW EXHIBIT!**

**OMg! Elements of Surprise**

OMg! Elements of Surprise

- *New Exhibit OPEN NOW through 2020!*

Explore the weird and wonderful Periodic Table with the Putnam-original exhibit OMg! Elements of Surprise. You’ll find that “elements are everywhere” as well as the surprising and quirky ways they shape the world around us!

**Celebrate the 100th anniversary of the 19th Amendment!*  

- NEW EXHIBIT Coming March 2020!

Discover stories of Quad Cities women who promoted and protested the women’s suffrage movement, and see how household inventions shaped their efforts during the early 20th century.

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**Touch the Untouchable: Augmented Reality**

Interact in real-time with amazing 3D characters and animals and “touch the untouchable” as part of the region’s first AR experience.

AR uses the existing environment and overlays new information on top of it to create a photo-real 3D experience.

The AR adventure “Back to the Jurassic,” allows visitors to come face-to-face with larger-than-life creatures, like a giant diplodocus, fierce T-Rex, and other dinos!

* This project is supported by Humanities Iowa and the National Endowment for the Humanities. The views and opinions expressed by this program do not necessarily reflect those of Humanities Iowa or the National Endowment for the Humanities.
Hands-On SCIENCE

Science Center
When you visit the Putnam with your students, you’ll see the power of hands-on experiences in our over 10,000-square-foot Science Center!

Featuring 50 interactives, the Science Center gives students the opportunity to experience science, technology, engineering, and math in action. Students also will learn HOW these concepts connect to careers, how STEM makes the world a better place and how THEY can be part of our STEM future.

RECENT ADDITIONS: The Science Center now includes an Augmented Reality Sandbox, allowing students to craft kinetic sand to gain a deeper understanding of hydrology and environmental science, helped by real-time 3D projections. Discover space, earth science and more through the interactive Magic Planet!

Black Earth/Big River
Explore wetlands, woodlands, prairies and your own backyard. Come face-to-face with live Mississippi River fish in our 718 gallon aquarium. Discover how invasive species are threatening local ecosystems and what you can do to preserve your watershed. See the area’s natural habitats as you’ve never seen them before.

Hall of Mammals
Explore the world of mammals. From the familiar cottontail in your backyard to the strange ant-eating Pangolin of southeast Asia and the polar bears of the Arctic Circle, mammals are everywhere. They come in all shapes and sizes. Learn how these animals have adapted to survive under extreme conditions and the perils that they face today. Where else can you travel from your backyard to the dusty plains of Africa and the ice-covered waters of the Arctic in just a few steps?

Ocean Experience
Designed especially for younger children, the Ocean Experience is a permanent installation featuring different underwater habitats from kelp forests to coral reefs to tidal pools to deep seas! Immersive and interactive, Ocean Experience is all about hands-on learning for our youngest visitors!
Experience the GIANT Screen Theater

Fall 2019 Featured Films

It’s like visiting a six-story classroom when you enter our National Geographic Giant Screen Theater. In this premier theater environment your students can experience beyond life-size and incredibly close up views of the ocean, space, amazing animals and even time-travel right from their seats. Our collection of 2D and 3D films is sure to inspire discussion, create connections and bring learning to life!

Most documentary films run approximately 40-50 minutes.

**INTO AMERICA’S WILD 3D | Coming April 4!**

Set out on an unforgettable cross-country adventure into the hidden wonders of the natural world!

A non-stop ride via kayak, bike, train, hot air balloon, zipline, kiteboard, hiking boots and more, Into America’s Wild 3D visits some of the most beautiful but untamed landscapes of America, from the lush coastline of Oregon and the wilds of Alaska to the ancient canyons of the Southwest and the rolling hills of the Appalachian Trail.

**BACK FROM THE BRINK 3D | Now Playing!**

Experience the remarkable true story of three animal species rescued from brink of extinction with Back from the Brink 3D.

Join this amazing adventure to save California’s enchanting Channel Island Fox, China’s fabled Golden Monkey and the wondrous migrating crabs of Christmas Island. Discover the heartfelt and ingenious human efforts to rescue endangered species around the world!

Films from the Vault

(For movie show times, call Bridget Boyd-Carlson at (563) 336-7308

Additional films may be selected from the Giant Screen Digital Library for groups of 50 or more. Scheduling these films is based on availability of the theater. Additional film library offerings may include:

- **History**
  - Lewis & Clark: Great Journey West 2D
  - Mummies: Secretes of the Pharaohs 3D
  - National Parks Adventure 3D
  - Apollo 11 2D

- **Natural Science**
  - Bugs: A Rainforest Adventure 3D
  - Dinosaurs Alive 3D
  - Flight of the Butterflies 3D
  - Flying Monsters 3D
  - Galapagos 3D
  - Last Reef 3D
  - Meerkats 3D
  - Mysteries of the Unseen World 3D
  - National Parks Adventure 3D
  - Oceans: Our Blue Planet 3D
  - Superpower Dogs 3D
  - Tiny Giants 3D

- **Physical Science**
  - Titans of the Ice Age 3D
  - Volcanoes 3D
  - Wild Africa 3D

- **STEM**
  - Titans of the Ice Age 3D
  - Journey to Space 3D
  - Living in the Age of Airplanes

- **Weather**
  - Tornado Alley 3D
  - Extreme Weather 3D
Let Us Do the **DRIVING**

**MUSEUM OUTREACH PROGRAMS THAT COME TO YOU**

Our Elementary and Middle School outreach programs offer an engaging, unforgettable learning experience that happens right in YOUR classroom! Programs are approximately 45 minutes long.

**Each program costs $75.** In addition to the program cost, a travel fee of $.75/mile (minimum travel fee of $5) applies.

**NOTE:** Funding assistance may be available.

**IMPORTANT:** Average length of program is 45 minutes with a capacity of 30 students per program.

- **CONTACT REBA PIERSO**n at rpierson@putnam.org or (563) 336-7297 for more information or to book classes!

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<tr>
<th><strong>Art Station: Titan (5th - 8th)</strong></th>
<th>Students will navigate through the thick, planet-like atmosphere and icy terrain of Saturn's largest moon in this science-based, art-guided demonstration. Students will explore the vast network of liquid methane rivers and the giant ice mountains while creating a scientific illustration of Titan's moonscape. Every participant will create their own illustration to keep. No artistic skills needed! This program is STEAM-ing ahead!</th>
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<tr>
<td><strong>Case of the Talking Skulls (3rd - 8th)</strong></td>
<td>Animal skulls pique curiosity and make wonderful tools for teaching students about wildlife and animal behaviors. What kind of animal did the skull come from? What behaviors can the skull reveal? Carnivore, herbivore or omnivore? Predator or prey? Nocturnal or diurnal? Students learn to look for clues in hopes of solving &quot;The Case of the Talking Skulls!&quot;</td>
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<tr>
<td><strong>Coral Reefs &amp; Beyond (K - 5th)</strong></td>
<td>Students will explore the adaptations of some of the beautifully strange creatures that inhabit the coral reefs. Go beyond to the other layers of the ocean and see creatures that can live with high pressure and low light. Some can even create light of their own! Through hands-on experiments, samples and models and a lively little visitor, students will be immersed in ocean learning. Why do starfish have tubed feet? Let’s find out!</td>
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<tr>
<td><strong>Innovations of Engineering (K - 8th)</strong></td>
<td>Introduce your students to the engineering design process using design challenges that promote teamwork, critical thinking, creativity and problem solving.</td>
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<tr>
<td><strong>Insects: What’s the Buzz? (K - 3rd)</strong></td>
<td>Explore the lives of insects and the important role they play in our world. Inspect and insect collection and learn what makes a bug an insect!</td>
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<td><strong>Our Region and the Civil War (4th - 8th)</strong></td>
<td>Take your class back in time to the years leading up to the Civil War. Students will learn about the Underground Railroad, Slaves and Soldiers, Training and Prison Camps in Rock Island and Davenport, and how Annie Whitmeyer helped hundreds of local orphans after the war.</td>
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<tr>
<td><strong>Progress on the Prairie (3rd - 5th)</strong></td>
<td>Journey back 3,000 years to hear about the discovery of corn from its tiny beginnings to today’s 1,000-kernel ears. You will also see a demonstration with a primitive corn farming tool that will help students understand the drastic changes and improvements in farming. From pre-colonial Native American methods to John Deere combines, your students will learn the a-MAIZE-ing connections between modern agriculture and its early roots!</td>
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<tr>
<td><strong>Science aLIVE! (Options for 1st - 8th)</strong></td>
<td>Put on your lab coats and break out the safety glasses! Join a Putnam educator in discovering scientific laws and properties through exciting demonstrations. Your students are sure to get a “bang” out of this program! Options include: MATTER (Grades 1-6): Freezing, melting or sublimation! This program includes demonstrations on states of matter, and a hands-on group activity. POLYMERS (1-8): Explore the stretchy, absorbant world of polymers through demonstrations, hands-on experiments and one brave volunteer. CHEMISTRY (3-8): Experiments, from combustion to a variety of chemical reactions, will leave your students begging for more! PHYSICS (3-8): Demonstrations and explanations galore! Students will experiment with Bernoulli Blowers, Newton’s Beads and a variety of inertia activities.</td>
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<tr>
<td><strong>To the Moon and Beyond (2nd - 8th)</strong></td>
<td>Students will learn about the effects of space on the human body by exploring space suits, nutrition and exercise through demonstrations and hands-on activities. Learn about some helpful inventions that were first developed for NASA’s space program as we go “To the Moon and Beyond!”</td>
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</table>
What is Putnam for Preschool?

Putnam for Preschool brings the Putnam and its treasures to your classroom or daycare center! All of the programs have hands-on experiences and activities for young learners. You will experience fun and movement during the 30-minute program. Topics are sure to spark creativity and learning, and encourage exploration long after the program ends!

**CORAL REEFS & BEYOND**
Learn about the beautiful Coral Reefs and their friendly (and not-so-friendly) neighbors! Why do Starfish and Sea Urchins have tube feet? Let's find out! Examine beautiful sea shells and coral from the ocean and meet a crabby friend!

**DINOSAURS**
Do you ever wonder what it would be like to be a dinosaur? Would you be a carnivore, herbivore or an omnivore? How do scientists know so much about animals they've never seen? Let's explore the ancient world of Dinosaurs together!

**EARTH WARRIORS**
There's only one planet Earth and it's our job to take care of it. Students will learn the importance of the 3 R's, Reduce, Reuse and Recycle. We will also explore how planting seeds and composting can help. Small people making big differences, that's what being an warrior for the Earth is all about.

**FUN WITH FLIGHT**
What is behind the science of flight? Gravity and energy are just a few things that we will explore while learning the basics. Come on: Let's fly into the big, blue yonder and have Fun with Flight!

**GERMS ... FRIEND OR FOE?**
Have you ever seen a germ? Are they all bad for you? Let's find out together as we take a journey to discover the small and sometimes invisible organisms that cause sniffles and coughs. Can you protect yourself, your family and friends? What can you do?

**H2WHOA!**
Hands-on learning is always a blast — especially in water! Together, we will build boats and test their buoyance. Will they sink ... or float? Only the element of H2O will know!

**INNOVATIONS OF ENGINEERING**
How do the skyscrapers stand up so tall? What materials make a bridge stable? As engineers, we will plan, build and rework structures and then put them to the test. This program introduces your young students to the engineering design plan.

**INSECTS: WHAT'S THE BUZZ?**
Crawl into the wonderful world of insects! Learn more about the life of insects and the important roles they play. With the help of our fun hands-on activities you will be able to tell the difference between a bug and an insect.

**KITCHEN CHEMISTRY**
We will use ordinary kitchen supplies to make extraordinary chemical reactions that are sure to delight! Enjoy lots of hands-on science experiments perfect for your littles. Have fun while safely exploring the world of a scientist!

**MAKING SENSE OF OUR 5 SENSES**
Let's examine our five senses! Together we will explore each sense and learn more about their inner workings. Next, we will put our senses to the test. Can you tell me what you see, smell, hear, taste and touch?

**RIVETING ROBOTS**
The Putnam Museum and Science Center have friends we would like to introduce to you. Our “family” of preschool friendly robots is looking forward to showing off their amazing abilities! But they need your help. Are you up for the challenge?

**WEATHER ROCKS!**
Have you ever seen a cloud ... in a BOTTLE? Clouds play a big role in creating the weather. We will explore different types of clouds and how they relate to weather systems. Students will have a chance to make a “rain cloud,” a “tornado” and discover the science behind them.

**PRICING**

$300 for 6 programs/weeks • 30 minutes per program • $55 for 1 program

*In addition to the program cost, a travel fee of $.75/mile (minimum travel fee of $5) applies. Be sure to ask if your class qualifies for a subsidy scholarship!*

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**CONTACT:**
Emma Boesch
Education Specialist
eboesch@putnam.org
563-336-7285
The IMMERSE program provides a week long, immersive, in house learning experience for students in the Quad-Cities area. While at the Putnam, teachers will cover all of their regular subjects weaving the Putnam’s wide-ranging resources and expertise into their lesson plans. This provides authentic, participatory learning experiences that really drive lessons home for all learners. The strength of this educational program is that the teachers and students use the Museum as their classroom and the artifacts, exhibits and films as their textbooks.

The Discovery Dome is a portable planetarium that simulates space age technology — giving guests an “out of this world” experience!

- This dome exhibit is fully immersive. The viewer is presented with images and videos in front, above and all around them!

- Shows that cover a range of earth, space, and life science topics are displayed in the dome. They’re entertaining, scientifically accurate and educationally inspiring.

- Three night-sky applications are included to display in the dome: Stellarium, Celestia and the WorldWide Telescope. These are excellent applications for teaching astronomy, mythology (constellations) and other night sky lessons.

- The dome will comfortably hold 35 second-grade students or 25 adults.

New Discovery Dome programs covering space and magnetism made possible by Arconic Foundation

TO RESERVE THE DISCOVERY DOME
Contact Reba Pierson at rpierson@putnam.org or 563-336-7298
Full Day $500 – 7 shows/one educator (7 hours max)
1/2 Day $300 – 4 shows/one educator (4 hours max)
The Dome is only available for outreach (not field trips).

CHECK OUT OUR DISCOVERY DOME

COME VISIT US with FREE Educator Passes!
Plan your Museum visit before the field trip! Bring your Teacher Passes below and come to the Museum free of charge.

EDUCATOR PASS
Admit one to Exhibit Halls - Exp. June 2020
Name: ____________________________ Date of visit: / / 
School: ____________________________
Email: ____________________________

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