Teacher’s Guide

Education Collection:
Specimens from the museum’s education collection can be loaned to teachers for two weeks free of charge. A maximum of 10 specimens can be checked out at a time with a $5/day late fee per specimen. See our website for more information and to download the request form.

Bio-boxes:
Our “Bio-boxes” can bring the museum’s unique and valuable resources right into your classroom. Each Bio-box includes mounted specimens from the museum’s education collection as well as “biofacts.” Biofacts are biological artifacts, such as animal skins, feathers, ants, bones, fruits, seeds, etc. Where applicable, the Bio-boxes also include additional resources, such as field guides or topic-related DVDs. Each Bio-box also contains a teacher’s guide, which provides teachers an overview of the subject, a description of the Bio-box’s connection to specific core curriculum concepts, and ideas as to how the contents of the Bio-box can be incorporated into lesson plans. The materials in each Bio-box can be used in a number of ways, in support of a single lesson or as supplemental material for an entire unit. The teacher’s guide can also be downloaded from our website.

Bio-box Checkout Procedures:
• You can checkout a Bio-box by filling out the request form on our website. The website also includes an online calendar displaying the dates each Bio-box is available.
• Bio-boxes may be kept for up to two weeks.
• Use of a Bio-box is free, but there is a $25 refundable security deposit. For each day the box is late, a $5.00 late fee is assessed; if any items from the box have been damaged or are missing, all or some portion of the deposit may be forfeited.
• Delivery service is now available for schools in Utah County for $35. Simply indicate that you would like this service when filling out the online request form. We will make specific arrangements with you via email (beanmuseum@gmail.com) for pick up and return. We will provide an invoice for this service. Please have a check ready when we deliver the Bio-box.

mlbean.byu.edu (801) 422-5050
We are excited for a new school year. We invite you to take advantage of the resources available to you from the Bean Life Science Museum. This guide will outline these resources in detail so you can determine what will work best for you and your students.

**LIVE-ANIMAL SHOWS**
We offer live animal shows in 3 formats: in-house, outreach, and webcasts.

**WEBCASTS (FREE):** Webcast live-animal shows (via Skype or Google Hangouts) provide an opportunity for students and teachers to interact with a museum educator and see our live animals in real time from the convenience of their classroom. Webcasts are free because neither the museum educator nor the students have to invest in travel or bus fees. This also allows us to reach schools that are a bit more distant from the museum. Webcast shows must be scheduled at least one week in advance and require the proper technology (webcam, internet, projector, sound system, etc.).

**IN-HOUSE SHOWS (FREE):** Groups can choose from 8 different live-animal shows based on different biological concepts. These private shows are held in the museum and are free. In-house shows must be scheduled at least one week in advance.

**OUTREACHES:** Outreach shows, where we bring a live animal show to your school, must be scheduled at least 2 weeks in advance. If multiple shows are scheduled for the same group on the same day, groups will need to pay for any time in between shows (if the shows are not scheduled back-to-back). Due to staffing issues, outreach shows will not be scheduled during the university's final exam week. For the 2017–2018 school year, final exams are scheduled for the weeks of December 15–21, 2017 and April 19–25, 2018.

The cost for an outreach show for schools in the partnership districts (Jordan, Alpine, Provo, Wasatch, Nebo) is $35. Nor- nal exams are scheduled for the weeks of December 15–21, 2017 and April 19–25, 2018.

**LIVE-ANIMAL SHOW TOPICS**
Our live-animal shows are interactive, make effective use of inquiry learning methods, and focus on the Utah State Core Curriculum Standards for students from kindergarten to fifth grade.

All of our shows include at least 3 live animals and can be adapted for any age group.

- **Preschool - Animal Discovery:** A quick, age-appropriate glance at vertebrates. Students will play a “game” and in the process discover new things about animals. This show is interactive and created specifically for kids under the age of 6. While we won’t limit group size, this show works much better for groups of 15 or fewer. Live animals include 3 of the following: cockroach, frog, turtle, lizard, or snake.

- **Kindergarten - Animal Comparisons:** A touch-and-feel approach to showing the differences between animal form and function. This is an inquiry-based show that allows students to closely observe differences in body parts, body coverings, and specialized senses in several different animals. Live animals include 3 of the following: tarantula, frog, lizard, turtle, or snake. (Standard 4 Objectives 2 and 3)

- **First Grade - Classification:** An opportunity for students to explore how and why scientists classify living things. Students will use inquiry methods to learn about animal classification. Live animals include 3 of the following: snake, cockroach, frog, tarantula, lizard, or turtle. (Standard 1 objective 4)

- **Second Grade - Habitat Hunters:** Students will explore various animal sustaining factors and decide which habitat a particular organism might best live and survive in based on that organism's adaptations. Live animals include reptile (snake, lizard, or turtle), cockroach, and frog. (Standard 4 objective 1c)

- **Third Grade - Nature Interactions:** An examination of how living things interact to produce mutually beneficial conditions. Plants and animals will be discussed and students will help determine why some species survive better in one environment over another. Live animals include snake or lizard, turtle, and frog. (Standard 2 objective 2)

- **Fourth Grade - Utah’s Diversity:** An interactive discussion of 3 Utah ecosystems (wetlands, forests, and deserts), including the kinds of plants and animals that occupy each ecosystem. Students will help the educator analyze each specimen and learn why they are found more commonly in one habitat versus another. Live animals include tarantula or lizard, frog, and snake. (Standard 5 objective 1, 2)

- **Fifth Grade - Adaptations:** This show examines various plant and animal adaptations while exploring how specific adaptations promote survival under varying environmental conditions. Live animals include 3 of the following: tarantula, snake, frog, or turtle. (Standard 1 objective 4)

- **New Show - Vertebrate Variety:** Last year we added this show designed for all ages. Using technology and both living and non-living specimens, we allow patrons to determine the defining characteristics of the 5 vertebrate classes.

- **Coming Soon – Collections and Research Show:** We are developing a new live animal show which will showcase the museum’s collections and how they are used in research. This show will be for older audiences, such as junior high, high school, and college-aged participants.

We also have a short information video you can watch which will answer the most frequently asked questions we receive about our live-animal shows. ([Live-animal Shows FAQ video](#))

**ADDITIONAL INFORMATION:**
Teachers are requested to fill out a feedback form after each show. Shows will typically last between 30 and 45 minutes. In-house and webcast shows start at 15 minutes after the hour.

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The cost for an outreach show for schools in the partnership districts (Jordan, Alpine, Provo, Wasatch, Nebo) is $35. Normally these shows cost $45 for non-partnership entities in Utah County and $65 for locations outside Utah County. Additional shows scheduled back-to-back for the same day are $15 each.

**REQUEST YOUR SHOW ONLINE:** Request a live-animal show for your class on our website. Visit mlbean.byu.edu and fill out the request form as completely as possible. You will need to be prepared to give us 3 possible dates and times for your show. You will receive a confirmation email within 2 working days. For questions, you can also call (801) 422-6698 or email beanmuseum@gmail.com.

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