



Ghost Ranch STEM Camp – Rocks, Bones, and Brains!
Paleontology Museum
Friday and Saturday, November 24-25, 2017
9:30am-4:30pm

Who: Children ages 7-17, families are welcome (if you have younger children we have a Family Center and children’s room in the Ranch library)

Cost: Free and open to the general public – camp includes lunches on Friday and Saturday, dinner on Friday evening, overnight stay on Friday, and breakfast on Saturday morning

Register: Please register by calling **Eileen Garcia** at 505.685.1017 or **Evelyn Leyba** at 505.685.1001 – indicate if you would like to stay overnight on the ranch Friday, November 24, and they can reserve a room for your stay.

Friday, November 24, 2017 – All About Brain Waves

Description: Neuroscientists will help you learn about what your brain waves look like, sound like, and how they act when you are curious and excited about learning something new. This will be a fun day where you learn about the physics of electrical waves, your own brain waves, and make some art with your waves based on science!

- 9:30am – 12:00pm** What are waves? Ocean waves, sound waves, radio waves, brain waves, all have many things in common. Learn how to measure waves and explore them in the world using transducers and computer software.
- 12:00pm - 1:00pm** LUNCH
- 1:00pm-4:30pm** Waves going into—and coming out of—your brain: what happens in your brain when you hear a sound? What waves come out of your brain when you are concentrating or daydreaming? We will use special electroencephalographic (EEG) headsets to visualize and learn about brainwaves.

Saturday, November 24, 2017 – Bones and Brains

Description: How *does* a dinosaur scientist (paleontologist) find and study bones? How big is a dinosaur’s brain? Can you see it in the skull? Come and learn how to identify valuable dinosaur bones using your own eyes, a microscope, and taking a trip out the Hayden Quarry with John Hayden who discovered this bed of dinosaur bones! Cast a dinosaur bone of your own to take home!

- 9:30am – 10:15am** Dinosaurs Alive! – see dinosaurs in action, in the landscape you know as Ghost Ranch before you see their bones and cast their bones!
- 10:15am-12:00pm** Dinos – big ones, small ones, see them, see their bones. Experience New Mexico’s most famous dinosaur up close! Cast your own dinosaur bone to take home.
- 12:00pm – 1:00pm** LUNCH
- 1:00pm-2:00pm** Want to be a scientist when you grow up? Play a game to learn the tricks of the trade!
- 2:00pm-3:30pm** Tour the Hayden Quarry with forest ranger John Hayden and paleontologist Alex Downs
- 3:30pm-4:30pm** Closing Celebration

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Questions? Contact Layne Kalbfleisch, M.Ed., Ph.D., Education Director, 505-685-1018, laynek@ghostranch.org or Debra Hepler, Executive Director, 505-685-1000 x4142, debrah@ghostranch.org

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