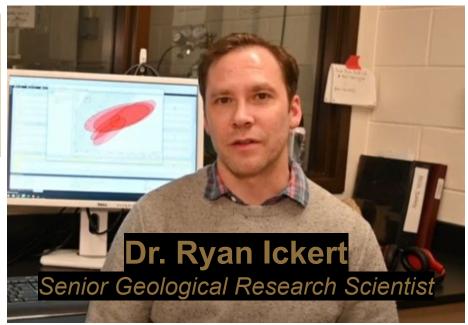


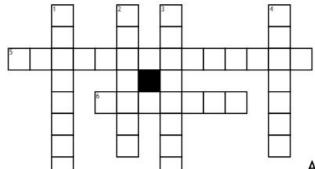
Dr. Ryan Ickert is a
Senior Geological
Research Scientist who
uses uranium-lead dating
to determine the ages of
rocks and minerals. His
research is used to help
museums by providing
the age of rocks and
archaeological materials
such as dinosaur fossils
and fish scales



Uranium-lead dating is one of the best-known radiometric age dating techniques for artifacts that range from around 1 million years to over 4.5 billion years old. This timescale is suitable for dating ancient rocks and minerals that help provide information about the early Earth and solar system formation. It works because the decay of uranium isotopes used has a very long half-life, which allows for dating extremely old materials. It is one of the most precise radiometric dating methods; accuracy in the 0.1-1% range.

Reference: https://www.sciencedirect.com/topics/earth-and-planetary-sciences/uranium-lead-dating

## Senior Geological Research Scientist





## Across

- **5.** These materials can be found in a museum.
- **6.** Uranium-lead dating is used for artifacts ranging from 1 \_\_\_\_\_ to 4.5 billion years old.

## <u>Down</u>

- 1. The \_\_\_\_\_ of uranium-lead dating is in the 0.1-1% range.
- 2. Uranium-lead dating is one of the most \_\_\_\_ radiometric dating methods.
- **3.** Uranium isotopes used in uranium-lead dating have a very long \_\_\_\_\_.
- **4.** The \_\_\_\_\_-lead dating method can determine the ages of rocks and minerals.