

Meteorite Map Bonus Challenge B Cards

Use with both 11" x 17" and 22" x 34" Meteorite Map Challenge Activity Boards

PRINT RECOMMENDATION: Print double-sided, flipping on the short-edge.
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METEORITE MAP BONUS CHALLENGE B

Test Your Geography Knowledge

*Challenge yourself to answer each question
with a corresponding name for its location.
(Example: city, state, country, continent, etc.)*

Use these cards to check your answers and learn more.



Credits: Alex Alishevskikh



Credits: Arizona State University's Center for Meteorite Studies

ANTARCTIC METEORITE PROCESSING LAB NASA Johnson Space Center



Where was the largest witnessed meteorite fall of this century located?

HINT: A city in a country that spans across Europe and Asia.

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ANSWER: Chelyabinsk, Russia

FUN FACT: In February 2013, a meteor about the size of a school bus passed through Earth's atmosphere and exploded (airburst explosion) over Russia, a reminder of the importance of planetary defense.



Watch ~3 minutes of our NASA webinar archive (Topic: Double Asteroid Redirection Test (DART), the world's first planetary defense mission) to learn more about the Chelyabinsk event.

Where is NASA Johnson Space Center's Antarctic Meteorite Lab located?

HINT: A city along the Texas Gulf Coast in North America.

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ANSWER: Houston, Texas

FUN FACT: This lab has curated Antarctic Search for Meteorite (ANSMET) samples since 1978. Weighing about 110 kg (~243 pounds) "Big LEW" is one of the largest.



View "Big LEW" in NASA's Antarctic Meteorite Lab on this meteorite infographic.

Where have teams of explorers searched for meteorites since 1976?

HINT: Earth's southernmost continent.

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ANSWER: Antarctica

FUN FACT: Since 1976, teams of explorers have searched for meteorites at sites along the Transantarctic Mountains in Antarctica as part of Antarctic Search for Meteorite (ANSMET) expeditions.



Learn more about the who, what, how, and why of ANSMET on this website run by Case Western University, a facilitator of the ANSMET expeditions.

Where were the ancient Allende carbonaceous meteorites found in 1969?

HINT: A town south of the USA-Mexico border in North America.

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ANSWER: Pueblito de Allende, Chihuahua, Mexico

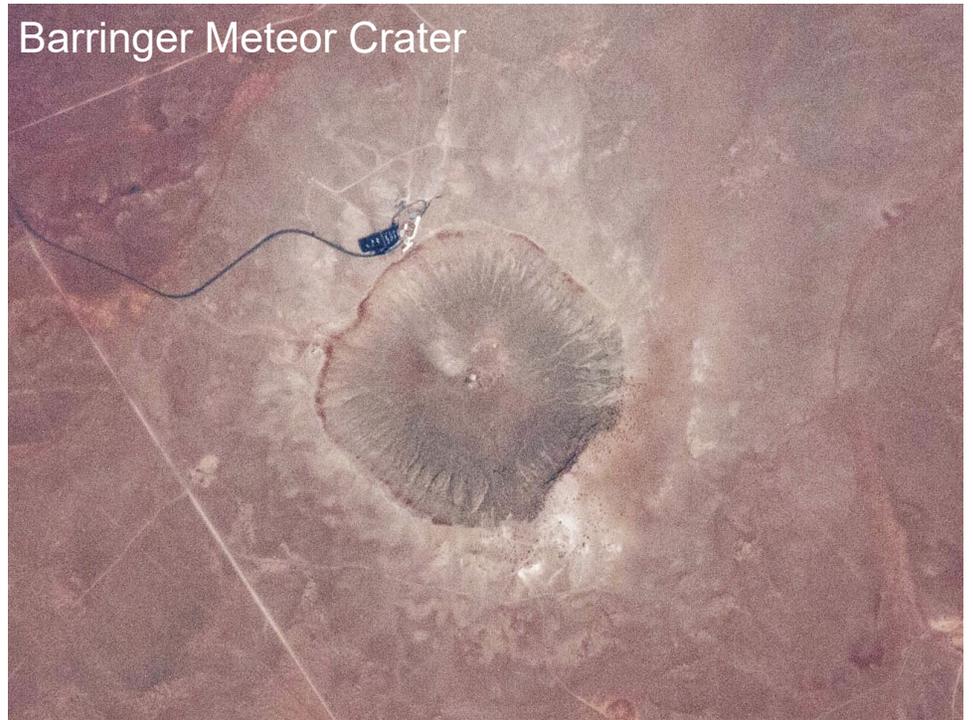
FUN FACT: In February 1969, a fireball was seen over northern Mexico. This meteorite fall resulted in the recovery of the Allende carbonaceous chondrites estimated to be ~4.567 billion years old.



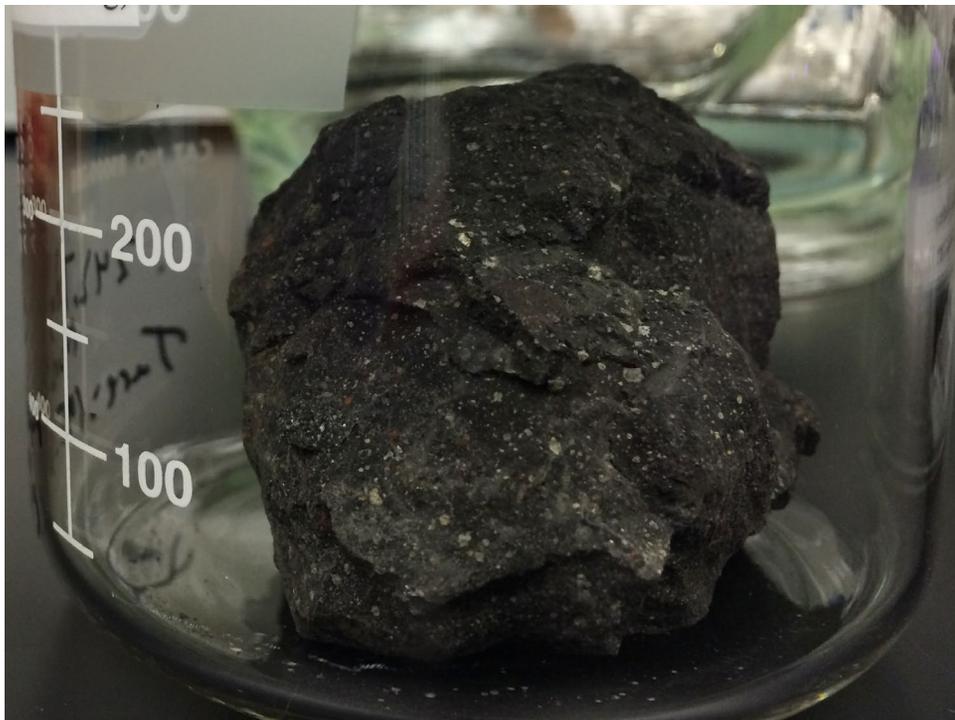
View this slice of an Allende meteorite on display at Arizona State University.



Credit: American Museum of Natural History, Hall of Meteorites



Barringer Meteor Crater



Where is one of the best-preserved impact craters in the United States?

HINT: A town in the Grand Canyon state in North America.

ANSWER: Winslow, Arizona

FUN FACT: Barringer Meteor Crater, a geology training site for astronauts, is about 1.2 km (~0.75 miles) in diameter. It formed from the impact of an iron-nickel space rock ~50,000 years ago.



Watch this ~1 minute Smithsonian Channel YouTube video to learn more about Barringer Meteor Crater.

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Where were the Gibeon iron meteorites found?

HINT: A country along southwestern Africa.

ANSWER: Namibia, Africa

FUN FACT: In 1836, these iron-rich rocks, initially discovered by the Nama people in Namibia, were determined to be iron meteorites. They were named Gibeon after the town closest to where they were found.



Learn more about NASA's Meteorite Sample Disks, available to disk certified educators. Each disk contains a small sample of a Gibeon meteorite.

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Where is evidence of the impact that contributed to dinosaur extinction found?

HINT: A peninsula in southeast Mexico in North America.

ANSWER: Yucatán Peninsula

FUN FACT: Chicxulub, an impact site partially hidden under the Yucatán Peninsula, was formed about 66 million years ago by an asteroid ~10 km (~6 miles) in diameter that struck the Earth.



Read NASA's Earth Observatory article to learn more about views of this area from space.

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Where were the Murchison meteorites, which contain the building blocks of DNA, found?

HINT: A town in southeastern Australia.

ANSWER: Murchison, Victoria, Australia

FUN FACT: Meteorites recovered in September 1969, after an observed fall over the town of Murchison, were found to contain organic compounds found in DNA, like amino acids.



Read more about the history and discovery of these meteorites from this local Australian paper.

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