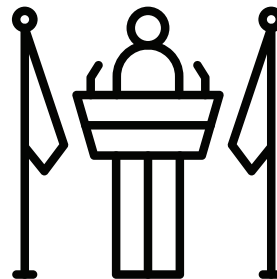
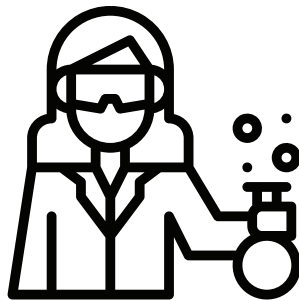
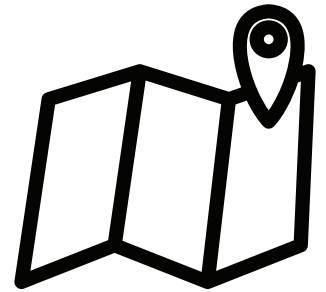
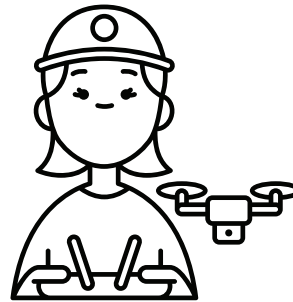
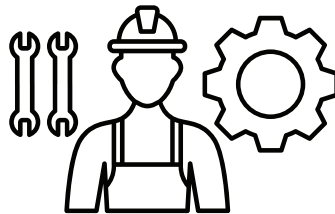


Geoscience Careers

Some people study the Earth. These people are called *geoscientists*. Geoscientists can work in many different careers. People in different careers can work together to solve problems. Talk with a partner about the different careers in the word bank and then match the career title with the images below. Think about how these careers could work together. What problems might they solve together?



 **Color the pictures when you are done.**



Word Bank

Drone pilot

Geologist

Map maker

Politician

Engineer

Lawyer

Physical scientist

Technician

Teaching about Geoscience Careers



DISCUSSION TOPICS AND QUESTIONS

- ◆ What are some problems in our community or around the world that people are working to solve using knowledge of the Earth?
- ◆ Let's talk about each profession on the activity page. What do you think they do? How could they help solve problems in our community?
- ◆ How could these professions work together or support each other's work to help solve problems?
- ◆ What other professions could work with geoscientists to help solve problems? How might they help?
- ◆ Water quality is an issue around the world.
 - ▶ How do you think different communities are supplied with safe drinking water? Consider your community and a community from somewhere else in the world.
 - ▶ How could each of the professions on the page help improve water quality in a community?
 - ▶ Think about how much time it takes for families to obtain safe drinking water in different communities around the world.
- ◆ Earthquakes are common and can be dangerous in certain communities. How do you think each of these professions can help decrease earthquake damage?
- ◆ How could the relationships between the professions on the page help reduce the time for communities to receive help during a crisis?

Geoscientists *without* Borders® (GWB) (www.seg.org/gwb) is a program that uses Earth science (also known as *geoscience*) to collect, process, and interpret data to help communities face environmental hardship and natural hazards. Ongoing projects in Nepal utilize a variety of professionals from different disciplines who work together to help the community:

- ◆ Nepal ranks among the countries with the world's highest seismic risk due to large earthquakes, a dense population, and vulnerable residential buildings. GWB's project team is working to establish a low-cost, real-time earthquake monitoring system. Learn more about the earthquake project here: <https://bit.ly/444idBW>
- ◆ Water security is an issue that GWB's project lead is hoping to improve in Nepal. Scientists and students are using water quality and quantity testing, geological mapping, and an Electrical Resistivity Tomography (ERT) survey to solve the water problems of two communities. Learn more about the drinking water project here: <https://bit.ly/3KYQx8I>

To learn more about GWB Projects visit:

<https://seg.org/About-SEG/Geoscientists-Without-Borders/Projects/map>

NGSS Connections

SEP: Asking Questions and Defining Problems; Obtaining, Evaluating, and Communicating Information

DCI: Human Impacts on Earth Systems

CCC: System and System Models, Stability and Change

SDG Connections

3: Good Health and Wellbeing: Professions work to improve and ensure the good health and wellbeing of community members.

10: Reduced Inequalities: Different professions work toward solving community issues for everyone.

11: Sustainable Cities and Communities:

Different professions work together to solve community issues.