

Waters of the Earth-Distribution of Water

Essential Question: How does water tie Earth's systems together?

What is the importance of water on earth?

What is the importance of water? How much water is available on earth and where is this water? Students will answer these questions and investigate the distribution of Earth's waters.

Standards:

5-ESS2-2 **Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.**

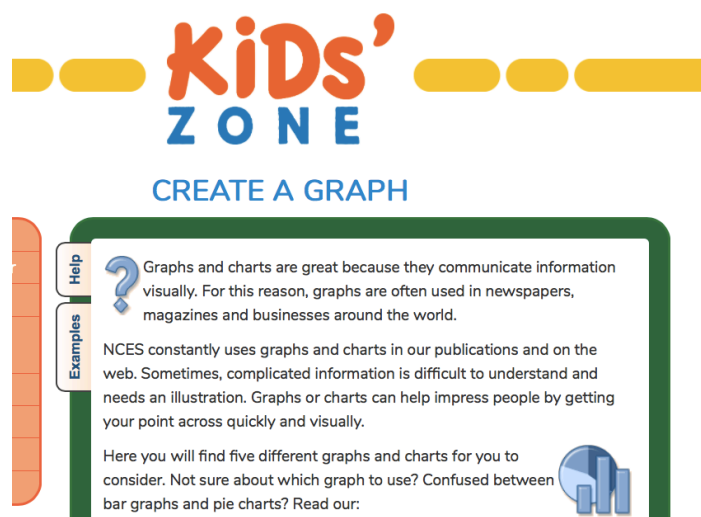
Materials needed:

- If your students are one to one with ipads, chromebooks, etc., students can use a website for the graph they will be creating.
- If your students are not one to one, they will need two copies of the pie chart provided below, colored pencils, and a ruler.

Advanced Preparation:

- Please check to see if <https://nces.ed.gov/nceskids/createagraph/> works on your student's devices.

Main page of website:



The image shows a screenshot of the Kids' Zone website. At the top, the logo reads "Kids' ZONE" in orange and blue letters, with yellow bars on either side. Below the logo is the text "CREATE A GRAPH" in blue. The main content area is framed in green and contains a "Help" section with a question mark icon and an "Examples" section with a list of text. At the bottom right of the content area is a small icon of a bar graph.

Help
? Graphs and charts are great because they communicate information visually. For this reason, graphs are often used in newspapers, magazines and businesses around the world.

Examples
NCES constantly uses graphs and charts in our publications and on the web. Sometimes, complicated information is difficult to understand and needs an illustration. Graphs or charts can help impress people by getting your point across quickly and visually.

Here you will find five different graphs and charts for you to consider. Not sure about which graph to use? Confused between bar graphs and pie charts? Read our:

Scroll down from main page and click the 'pie' chart.



If it then pulls up this page, you are good to go!

CREATE A GRAPH

Help



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[Create A Graph Tutorial](#)

Design

Data

Labels

Preview

Print/Save

Pie



Program Connection Information

Please use an external microphone (conference style) rather than the integrated one in the computer for the audio for your class and locate it centrally in the room. It can be difficult for the Greenbush teacher to hear the students using the computer microphone and therefore it reduces the interactive nature of the lesson. It is fine to use the computer webcam for your video source though.

All classes will take place using Zoom desktop video. If your building is already set up to use a desktop video application with a computer, simply open a browser and enter <https://greenbush.zoom.us/j/6913388482> in the URL space. You may need to download Zoom launcher software (free download) if you don't already have it. This needs to be done in advance of the lesson.

If using a Polycom video conferencing unit (or any legacy type video conferencing unit) to connect to a ZOOM conference, make sure the unit is in "encrypted mode" then dial the following IP on the internet: 162.255.37.11 or 162.255.36.11 and once connected, they will ask for a MEETING ID: enter 6913388482 (for Kenzie at Science Center).

It's always a good idea to touch base with your district technology facilitator prior to your program to make sure all systems/equipment are in place and operational and no firewalls that might prevent you from connecting to Zoom.

Once you connect, you will enter a Zoom waiting room. Your Greenbush teacher will admit you into the final meeting room.

Classes take place at the following times:

9:00-9:45

10:00-10:45

12:15-1:00

1:15-2:00

2:15-3:00

If you log in during one of those times, you may connect during another class' lesson. If you do, please check your connection to make sure things are working properly and then leave the meeting until your scheduled time by selecting "End Meeting" in the lower right corner of your Zoom screen and click on "End Meeting". You will need to rejoin the meeting at your scheduled time. This prevents your site from interfering with the lesson currently in progress. After your lesson is finished, please leave the meeting.

If you have questions, please call Kenzie Heatherly at Greenbush (620-724-6281).

Prior to the IDL lesson, please pre-teach and practice these cooperative learning techniques with your students. These will be used in the IDL lessons this school year.

Round Robin

Each member of the team takes a turn sharing orally with the team.

Rally Robin

With a partner, students take turns sharing brief oral responses.

Timed Pair Share

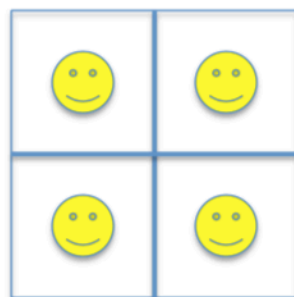
In pairs, students share with a partner for a predetermined time while the partner listens. Then partners switch roles.

Stand Up, Hand Up, Pair Up

Students move around with hands in the air and quickly find a partner with whom to share or discuss. Once students find a partner, they give each other a “high five” and stand together, ready for the next instructions.

More terms to know -

Shoulder Partner:
The person sitting on
the student's right or
left.



Face Partner:
The person
sitting facing the
student.

Key:

