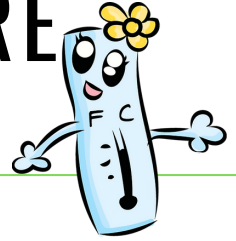




MEASURING TEMPERATURE

Grades 4-7



MAKE A DIGITAL THERMOMETER

Students will program their micro:bits to measure temperature.

GUTEN TAG!

10 min

Guten tag is German for hello!

Greet your students. Be friendly. Use their name, ask a question, give a high five, or thumbs-up! Take roll. Mark down which students took a snack and tally how many snacks were given out.

STORY & SNACK

20 min

Read the story:

Today's story is called Danny the Squirrel's First Winter. Read to your students outside as they sit in a circle.

SPORTS / GAMES

30 min

Would You Rather: Temperature Edition

Students will play Would You Rather and perform various exercises for each thing they choose.

Instructions- Choose a large open area, such as a basketball court. Designate the middle of the play area, such as the half-court line. Have students line up on the mid-line. Instructor will ask would you rather questions, and depending on whether the student would choose the first or second choice, they will run to either the left or right side of the play area, such as to one end of the basketball court or the other. Once they reach the side they choose they will perform an action, such as three jumping jacks, or 3 toe-touches, then run back to the middle. Every few questions, the instructor can switch up the actions.

Questions can be silly and include things relating to weather or animals that live in different climates, etc.

Examples:

- Would you rather be a Brown Bear or a Polar Bear?
- Would you rather live in the snow or the desert?
- Would you rather be an arctic fox or a desert fox?
- Would you rather ski or snowboard?
- Would you rather swim to school or snowshoe?

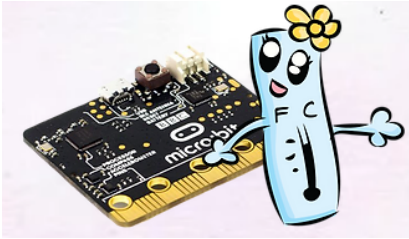


STEM TIME

50 min

Materials:

micro:bit



NATURE JOURNALING

20 min

CLEAN UP / DISMISSAL

20 min

Make a digital thermometer: Program your micro:bit to measure temperature

Every computer processor is equipped with a digital temperature sensing device. Computers need it to monitor their temperatures. Students will utilize the micro:bit's temperature sensor to read the temperature of the surrounding environment!

Instructions:

1. Have students go to <https://www.stemtaught.com/> and click on "STEMTaught Programming" under the Students heading at the top of the page. The password is "yay".
2. Have students navigate to the activity "Digital Thermometer (Degrees F & C)" and follow the instructions to program their micro:bit.
3. When students finish programming their micro:bits send them outside to test their thermometers in hot and cold places.

Instructions:

Say - "Today we got to do a fun activity of programming. Write a journal entry about what you did and learned."

Clean up/pack up/dismissal

Clean up, pack up and practice lining up.