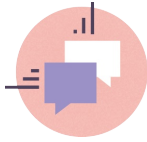


Gather Food - Winter is Com
plugged



OVERVIEW

Students write JavaScript on getcoding.io to solve increasingly difficult challenges involving moving a squirrel to gather nuts.



OBJECTIVES

1. Students write basic JavaScript to solve simple navigation problems.



AGENDA

Length: 45 minutes

1. Warm-up
2. Help the Squirrel Gather Acorns
3. Pair Idea Exchange
4. Resume Helping the Squirrel Gather Acorns
5. Unplugged Exit Ticket



VOCAB

Code Editor - The place where coders assemble their program.



MATERIALS

1. [Lesson 5 | Warm-up Worksheet](#)
2. [Lesson 5 | Exit Ticket](#)

3. Laptops/Computers
4. Scratch paper grids
5. Small turtle cutout for each student
6. Magnetic turtle
7. Scratch paper grids
8. Pencils
9. Whiteboard



WARM-UP



Length: 10 minutes

Students practice writing basic javascript to create a simple Pixel Bot drawing.

Prep: Hand out [Lesson 5 | Warm-up Worksheet](#)

Teacher Actions	Student Actions
<p>1 Individual Work: Ask students to write the code to produce the Pixel Bot image in the [Lesson 5 Warm-up Worksheet] [warm-up]. Consider reminding students of the proper JavaScript syntax (see Elements on the worksheet).</p>	<p>1 Students individually fill out the Warm-up Worksheet.</p>
<p>2 Draw the Pixel Bot image on the whiteboard and code the solution with the students, randomly calling on one student at a time to provide each next line of code. (Note the problem can be solved in different ways. Students should follow the class' ongoing code which may differ from their own solution).</p>	<p>2 If called on, students call out the next line of code.</p>



HELP THE SQUIRREL GATHER ACORNS



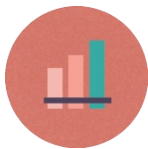
Length: 15 minutes

Students write code in JavaScript on the getcoding.io platform to help the squirrel gather acorns. Students are practicing simple sequences.

Prep: Have the getcoding.io platform open on your browser and projected on the wall. Students should also have their own computers.

Teacher Actions	Student Actions
<div>1</div> <p>Walk students through the getcoding.io platform. Show students how to:</p> <ul style="list-style-type: none">• open activities• use the Code Editor (where to type)• see elements• run code• step through the code one line at a time• change the speed	
<div>2</div>	<div>2</div>

<p>Ask students to browse to getcoding.io and start moving through the challenges in the Calling Functions squirrel activity. Explain the goal of the activity: Move the squirrel to the nut and pick it up. Tell students they are free to continue on to the second squirrel challenge when they are ready.</p>	<p>Students start solving the challenges in the Calling Functions squirrel activities.</p>
<p>3 When students get stuck, we suggest using the Read, Write, and Debug protocols to support students. Ask students to imagine being on the Coder team from the group activities. They should try to play the roles of the writer and navigator. Then, ask students to imagine being a Bot to understand how the computer reads the code.</p>	



PAIR IDEA EXCHANGE

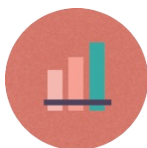


Length: 5 minutes

Talk with a peer about how the code is working.

Prep: None

Teacher Actions	Student Actions
<div>1</div> <p>Ask students to pause their progress and talk with a neighbor about their current problem. What is their plan? What have they tried? Is there anything standing in their way? Important: Ask students to offer questions instead of solutions.</p>	<div>1</div> <p>Students pause their progress and talk with a neighbor about the problem they are currently trying to solve.</p>



RESUME HELPING THE SQUIRREL GATHER ACORNS



Length: 10 minutes

Students continue writing code in JavaScript on the getcoding.io platform to help the squirrel gather acorns.

Prep: None

Teacher Actions	Student Actions
<div>1</div> Ask students to resume coding individually in the Calling Functions squirrel activity.	<div>1</div> Students resume coding.



UNPLUGGED EXIT TICKET



Length: 5 minutes

Students individually fill out an exit ticket focused on simple sequence.

Prep: Hand out [Lesson 5 | Exit Ticket](#).

Teacher Actions	Student Actions
<div>1</div> <div>Individual Work: Ask students to fill out the Exit Ticket. Draw their attention to the Elements on the Exit Ticket worksheet because they differ ever so slightly from the squirrel elements.</div>	<div>1</div> <div>Students fill out the exit ticket.</div>