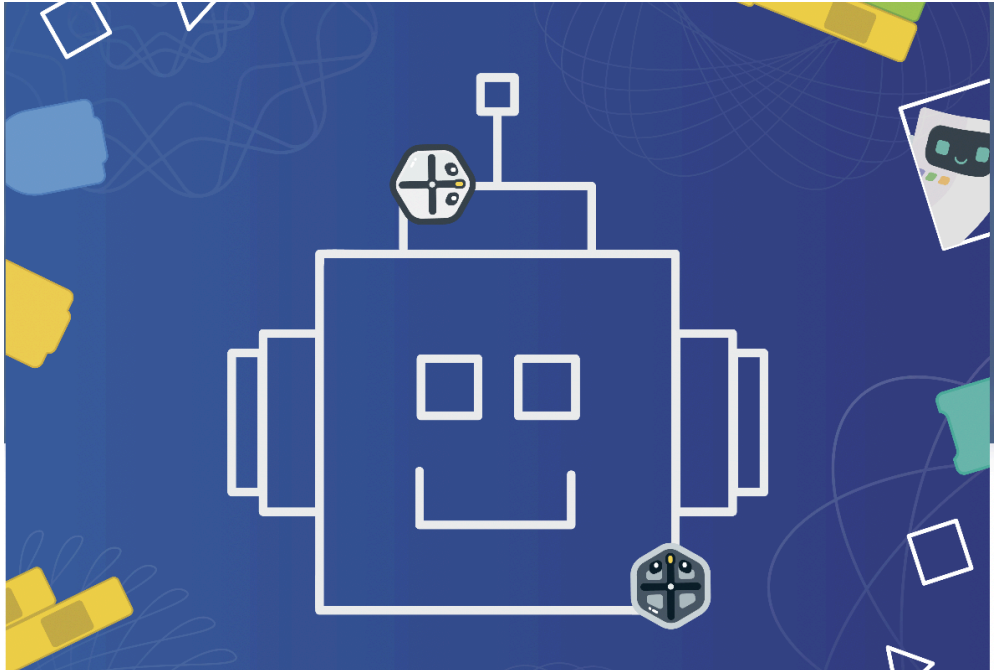


Robo Friend

Students will code a Root robot to draw parts of a robot with simple shapes.

<p><i>Time:</i> 60 mins.</p> <p><i>Materials:</i></p> <p>Device and projector to display Meet Root slides and iRobot coding website</p> <p>One Chromebook for each student (online simulator)</p> <p>OR</p> <p>One Chromebook and one Root robot for every two students</p> <p><i>Prep:</i> Make one copy of the Drawing Handout for each pair of students and one copy of the Reflection Handout for each student.</p>	<ol style="list-style-type: none">1. Hook: show the Robo Friend Activity Trailer.2. Issue challenge: code Root to draw a picture of a robot made of simple shapes.3. Use the Meet Root slides to introduce students to the Root robot and iRobot coding website. Be sure to discuss how students will work collaboratively with a partner to code the robot.4. Use the Drawing Handout and iRobot coding website to review how to program Root to draw different shapes (all second-grade students coded Root to create a geometric drawing last year).5. Send students off to work with their partners.<ul style="list-style-type: none">o Plan: What will your robot friend look like? What shapes will you use?o Code: use the marker, move and repeat blocks to draw your robot friend.o Test and revise: use the mat or simulator to debug and improve.6. Share & reflect: do a "gallery walk" and complete the Reflection Handout. 
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