

Sphero

Difficulty: Moderate, accommodations will be needed for students who struggle with reading paragraphs.

Overview: Spheros are advanced robots with an array of sensors that allow students to program to a higher degree than the Dash and Dot robots. These clever orbs can do a lot!

Number of Students: up to 24, we have 6 Spheros that can be used with larger groups especially when doing precise movements that may need to be discussed and debated before initiated.

Sample Lesson (time: minimum 2 class periods): Have students work through the “Introduction to Sphero Edu” and learn how to use conditional formatting. Then when they have mastered that their final challenge will be the “Jurassic Code: Spheroraptor Escape”, in which they will need to program the Sphero to escape on its own out of an enclosure with just one entrance/exit. It sounds simple but students will be demonstrating all of their knowledge as their code will need to tell the Sphero to monitor if it is in motion, to change direction if not in motion, and to repeat that.

The Sphero lessons and activities have questions built into them, and you can track the students progress through the lessons and their score through the teacher portal. Part of the “Jurassic Code” is to submit their code to you for grading.

