

# Introduction

Developed exclusively for Amplify Science, digital simulations, or “sims,” are interactive, virtual worlds that allow students to discover and construct understanding of science concepts and phenomena. Sims provide students with opportunities to explore scientific phenomena that might otherwise be challenging to investigate in a classroom because they are too small, large, slow, distant, dangerous, or difficult to manipulate directly. Much like real scientists do, students in Amplify Science use technology to explore and investigate phenomena, observe and identify relationships, model processes, make predictions, gather evidence, and apply their understanding of science concepts.

## Environments and Survival

The Environments and Survival sim (also known as RoboGrazer) is an interactive design app that allows students to make, test, and revise their designs for a robot that can remove and grind up invasive plants.

