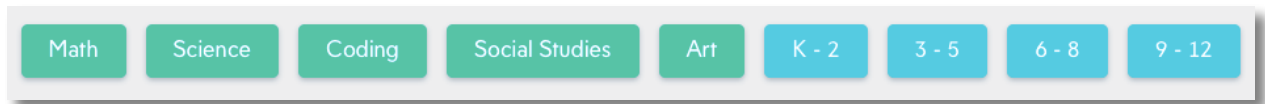


Activities and Design Challenges

Discover all kinds of **amazing** lesson ideas and design challenges at **Sphero Edu**. Choose from a list of categories or explore the possibilities found on this page:

<https://edu.sphero.com/cwists/category>

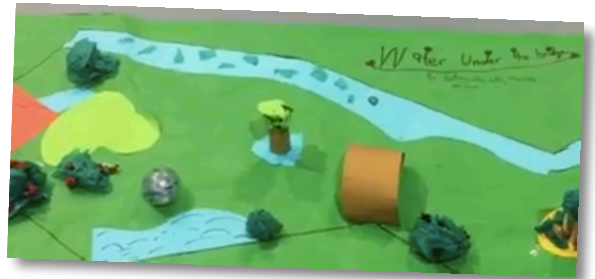


Here are some design challenges we have discovered and are eager to explore with learners:

Sphero Mini Golf:

In this activity students collaborate to create a Mini Golf course which then can be played by coding a Sphero from the Tee to the Green. Grades K-8.

<https://edu.sphero.com/cwists/preview/12702x>



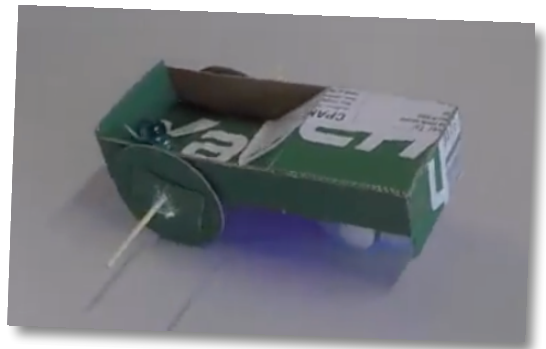
Olympic Curling with Sphero:

Students learn about speed, distance, velocity, as well as "if/and" statements and basic rules to the sport of Curling. Grades K - 12+.

<https://edu.sphero.com/cwists/preview/12909x>

This challenge, called *Project Vahana*, suggests using recyclable materials (cardboard, tape, skewers, cups, rubber bands, Pringles tubes, toothpicks) to design chariots. Grades K - 12+.

<https://edu.sphero.com/cwists/preview/12921x>





K'nex Chariot Challenge:

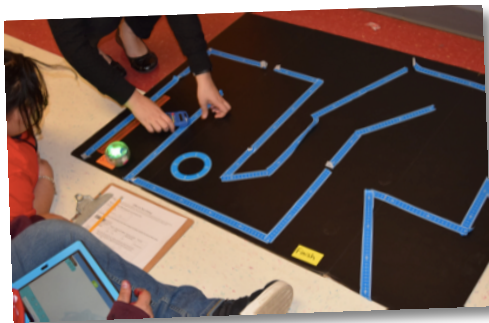
A design challenge where learners engineer Sphero drawn chariots and write code to compete in chariot races. Grades 4 - 6.

<https://edu.sphero.com/cwists/preview/13271x>

Crazy Robot Cars

In this activity students learn how to collaborate with others to design, construct and test vehicles powered by Spheros. Grades K - 7.

<https://edu.sphero.com/cwists/preview/12699x>



Lunar Maze Challenge - NASA has asked your team to navigate a rover in search of ice on the Moon for future human colonies! Program your rover to autonomously navigate the lunar maze. Grades 6 - 8.

<https://edu.sphero.com/cwists/preview/13154x>

Alien Pop

Students are given a cup and various building materials to create a way for the Sphero to drive the cup and pop balloons taped to a wall. Grades 4 - 12+.

<https://edu.sphero.com/cwists/preview/13157x>





The Strolling Dead

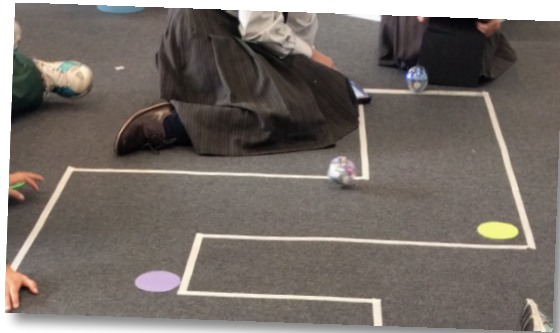
Can Sphero navigate through a sea of meandering zombies to the hospital for much needed medical supplies? Can he then make it safely to the protection of camp without becoming infected? The survivors behind the gates won't wait for long and fresh supplies are your ticket in! Test your driving and coding skills in this multi-phase mission. Grades 5 - 12+.

<https://edu.sphero.com/cwists/preview/4842x>

Check out these websites for more activities and design challenge ideas:

Spheros in the Classroom shares Sphero lesson ideas involving mathematics, art, design and coding. Grades K - 3.

<https://elenikyritis.com/2016/08/20/spheros-in-the-classroom/>



On Point for Kids shares a collection of visuals and ideas to inspire Sphero engineering and design challenges such as obstacle courses, chariot and competition ideas, and art ideas. Grades K - 6.

<https://onpointforkids.com/2016/05/25/sphero-ideas-for-teachers/>