



# Race Car Workshop

Next Generation Science Standards &  
Common Core State Standards

## **Race Car (Grades: 3-5)** **Subjects Covered: Science, STEAM**

The light changes from red to green, and off you go! Did your pit team choose the right wheels? Will your team win? Students will customize a race car to explore different variables, like mass and rolling resistance, to see whose car can go the farthest and record data and use it to make predictions and recognize patterns.

### **Education Standards**

NGSS 3-PS2-2, NGSS-3-5-ETS1-2, ISTE: 4c, CCSS.ELA-LITERACY.SL.3.1

#### **NGSS 3-PS2-2**

Physical Science. Motion and Stability: Forces and Interactions. Students who demonstrate understanding can; Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.

#### **NGSS-3-5-ETS1-2**

Engineering Design. Students who demonstrate understanding can; Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

ISTE 4c: Innovative Designer. Students develop, test and refine prototypes as part of a cyclical design process.

#### **CCSS.ELA-LITERACY.SL.3.1**

Language Arts. Speaking and Listening Standards. Comprehension and Collaboration. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.