

# Unit 5 Hot Wheels

Content Area: **Technology**  
Course(s):  
Time Period: **April**  
Length: **4 Days**  
Status: **Published**

## Unit Overview

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**Students will be able to...**

- Collaborate to solve simple engineering challenges.
- Collect, record, and interpret data.
- Use the engineering design process to improve their designs.

## Standards

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CS.K-2.8.1.2.CS.1	Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences.
CS.K-2.8.1.2.CS.2	Explain the functions of common software and hardware components of computing systems.
CS.K-2.8.1.2.CS.3	Describe basic hardware and software problems using accurate terminology.
CS.K-2.8.1.2.DA.3	Identify and describe patterns in data visualizations.
CS.K-2.8.1.2.DA.4	Make predictions based on data using charts or graphs.
CS.K-2.8.2.2.ED.1	Communicate the function of a product or device.

## Materials

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- Hot Wheels Kit
- Trackmania
- Laptop

## Assessment

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### Formative Assessment

- Teacher Observation
- Checks for Understanding
- Exit Tickets

### Summative Assessment

- Performance Tasks & Projects

## **Accommodations & Modifications**

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### **Special Education**

- Follow IEP Plan which may contain some of the following examples...
- In class/pull out support with special ed teacher or assistant
- Preferred seating
- Directions repeated/clarified
- Extended time for completing tasks
- Vocabulary support
- Limit number of tasks

### **504**

- In class/pull out support with special ed teacher or assistant
- Preferred seating
- Directions repeated/clarified
- Extended time for completing tasks
- Vocabulary support
- Limit number of tasks

### **ELL**

- Translation device/dictionary
- Preferred seating
- Directions repeated/clarified
- Extended time for completing tasks
- Vocabulary support
- Limit number of tasks

### **At-risk of Failure**

- Preferred seating
- Directions repeated/clarified
- Extended time for completing tasks
- Vocabulary support
- Limit number of tasks

### **Gifted & Talented**

- Independent projects
- Online games
- Extension activities

## **Interdisciplinary Connections**

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SCI.K.PS2.B	Types of Interactions Analyzing and Interpreting Data
SCI.K.ETS1.A	Defining Engineering Problems Cause and Effect

## **Career Readiness, Life Literacies & Key Skills**

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TECH.9.4.2.CI.1	Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).
TECH.9.4.2.CI.2	Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).
TECH.9.4.2.TL.3	Enter information into a spreadsheet and sort the information.
TECH.9.4.2.IML.4	Compare and contrast the way information is shared in a variety of contexts (e.g., social, academic, athletic) (e.g., 2.2.2.MSC.5, RL.2.9).