



## Mini-Map for SCI.EE.HS.PS2-3

Subject: Science

Physical

Grade: 9–12

### Learning Outcome

DLM Essential Element	Grade-Level Standard
<b>SCI.EE.HS.PS2-3</b> Evaluate the effectiveness of safety devices and design a solution that could minimize the force of a collision.	<b>HS-PS2-3</b> Apply science and engineering ideas to design, evaluate, and refine a device that minimizes the force on a macroscopic object during a collision.

### Linkage Level Descriptions

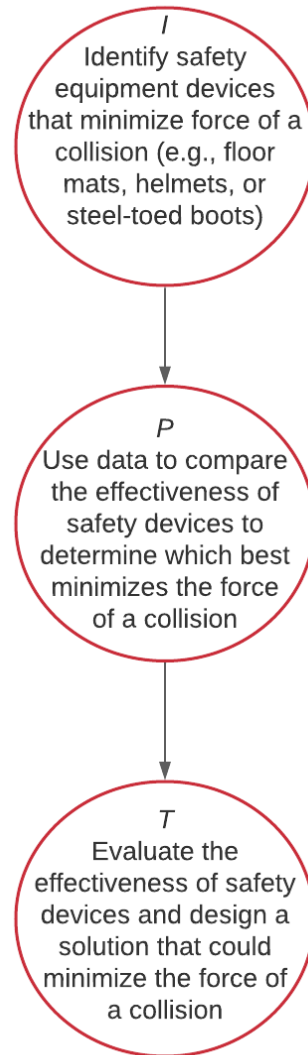
Initial	Precursor	Target
Identify safety devices that minimize force of a collision (e.g., floor mats, helmets, or steel-toed boots).	Use data to compare the effectiveness of safety devices to determine which best minimizes the force of a collision.	Evaluate the effectiveness of safety devices (e.g., egg drop device) and design a solution that could minimize the force of a collision.

### Instructional Resources

Linkage Level	Instructional Activities
Initial/Precursor/Target	N/A
Connections	
Science and Engineering Practices	Constructing Explanations and Designing Solutions
Crosscutting Concepts	Cause and Effect
Released Testlets	
See the <a href="#">Guide to Practice Activities and Released Testlets</a> .	

[Link to Text-Only Map](#)

**SCI.EE.HS.PS2-3** Evaluate the effectiveness of safety devices and design a solution that could minimize the force of a collision.



Map Key	
I	Initial
P	Precursor
T	Target