



**DYNAMIC**<sup>™</sup>  
LEARNING MAPS

# Released Testlet

HS.PS2-3.P

Subject: Science

Grade: High School

Linkage Level: Precursor

Essential Element: Use data to compare the effectiveness of safety devices to determine which best minimizes the force of a collision.

Read the text. After you read the text, you will answer some questions.

BACK 

NEXT 

Tomas learns about safety devices. Tomas knows that safety devices lower forces.



BACK ↩



NEXT ➡

Tomas compares safety devices. Tomas wants to protect an egg from breaking.



BACK ↩

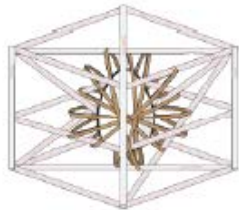


NEXT ➡

Tomas makes 3 egg safety devices.



Device 1



Device 2



Device 3

BACK ↩



NEXT ➡

Tomas drops the egg safety devices from different heights. Tomas compares the 3 safety devices. Tomas makes a table.

Safety Devices

Device	Safe Drop Height
1	10 feet
2	15 feet
3	18 feet

BACK ↩



NEXT ➡

Tomas compares the 3 safety devices. Tomas makes a table.

**Safety Devices**

Device	Safe Drop Height
1	10 feet
2	15 feet
3	18 feet

Which device has the biggest safe drop height?

Device 1

Device 2

Device 3

BACK



NEXT

Tomas compares the 3 safety devices. Tomas makes a table.

**Safety Devices**

Device	Safe Drop Height
1	10 feet
2	15 feet
3	18 feet

Which device lowers the force on the egg the most?

Device 1

Device 2

Device 3

BACK



NEXT

Tomas drops the egg onto 3 different materials. Tomas wants to keep the egg safe.



BACK ↩



NEXT ➡

Tomas drops the egg onto 3 different materials. Tomas has foam. Tomas has tissues. Tomas has cardboard. Tomas keeps the thickness of the materials the same.



foam



tissue



cardboard

BACK ↩



NEXT ➡

Tomas drops the egg onto each of the materials from the same height.



BACK ↩



NEXT ➡

Tomas drops the egg onto each of the materials. Tomas checks to see if the egg is safe. Tomas makes a table.

#### Safety Materials

Material	Safety
Foam	Safe
Tissue	Not Safe
Cardboard	Not Safe

Which material protects the egg the best?

foam

tissue

cardboard

BACK ↩



NEXT ➡