



# Released Testlet

Science.HS.PS2-3.P

Subject: Science

Grade: High School

Linkage Level: Precursor

Essential Element: Evaluate the effectiveness of safety devices and design a solution that could minimize the force of a collision.

Linkage Level Assessed: Use data to compare the effectiveness of safety devices to determine which best minimizes the force of a collision.

Science HS.PS2-3 P

Choose BEGIN to start.

← GO BACK

BEGIN →

The image shows a digital interface for a testlet. At the top, the text "Science HS.PS2-3 P" is displayed in blue. Below this, a white rectangular box contains the instruction "Choose BEGIN to start." At the bottom of the interface, there are two buttons: a blue button on the left with a left-pointing arrow icon and the text "GO BACK", and a green button on the right with the text "BEGIN" and a right-pointing arrow icon.

Read about the activity. After you read about the activity, you will follow along with the activity again and 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

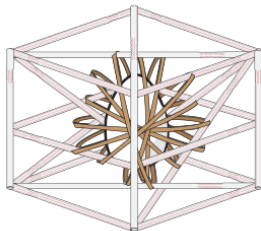


NEXT

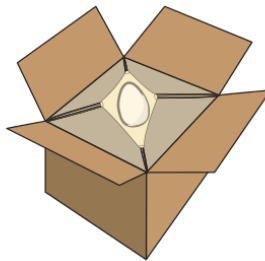
Tomas makes 3 egg safety devices.



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



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



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

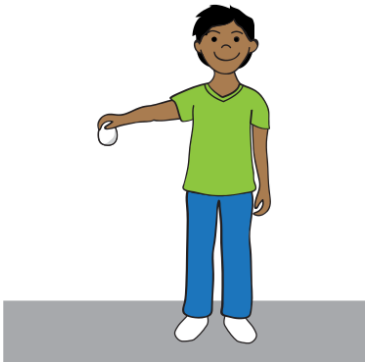
Device 3

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



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



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 

### Review: Science HS.PS2-3 P -- Section 1

Are you done?

1  2  3

Red boxes  mean you are not done. Ask your teacher for help.

- Answered  
 Not answered

Green checks  mean you are done. You can choose end.

 GO BACK

END 

Review: Science HS.PS2-3 P -- Section 1

Are you done?

1	2	3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Red boxes  mean you

are not

teacher

Green

you are

choose

Are you sure you want to end?

YES

NO

⬅️ GO BACK

END ➡️