

Experiment for Home

Question: Does the temperature of a puck, affect its behavior and how it bounces?

Hypothesis: I believe that a cold puck will bounce _____ compared to a room temperature puck.

- Higher
- Lower
- The same

Materials

- Hockey puck
- Ruler
- Phone Camera

Independent Variable: Temperature of the hockey puck

Dependent Variable: Distance the puck bounces

Procedure

- Find a flat area of cement to drop the puck
- Place the ruler standing vertically where you will drop the puck
- Set up the camera (in slow-mo mode) so it is viewing the ruler and can record how high the puck bounces off of the ground when dropped.
- Drop the puck from waist high (use the same height each time) and record how high it bounces. (repeat this step 3-5 times)
- Place the puck in the freezer for several hours and repeat dropping the puck and measuring the height bounced.

Data

Trial	Distance of Bounce (cm) Room Temp	Distance of Bounce (cm) Frozen	Distance of Bounce (cm) (your new idea)
1			
2			
3			
4			
5			

Graph (fill it out)



Hypothesis: My hypothesis was _____. The temperature of a hockey puck _____ have an effect on how it bounces. A cold puck will bounce _____ compared to a room temperature puck.

Correct

Incorrect

Does

Does Not

Higher

Lower

Similar

How can you change this to make your own experiment?

- Ask a new question
- Change the Independent Variable
- Drop the puck onto a different surface
- Measure it differently

