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 Independent Variable: Temperature of the hockey puck
- Ruler Dependent Variable: Distance the puck bounces
- Phone Camera

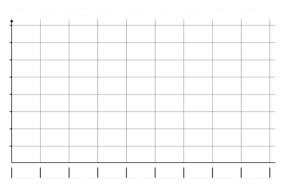
Procedure

- 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	Distance of	Distance of
	Bounce (cm)	Bounce (cm)	Bounce (cm)
	Room Temp	Frozen	(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			How can you change this to make your own experiment?
Does	bes Does Not		- Ask a new question
Higher	Lower Similar	 Change the Independent Variable Drop the puck onto a different surface 	
			- Measure it differently

