

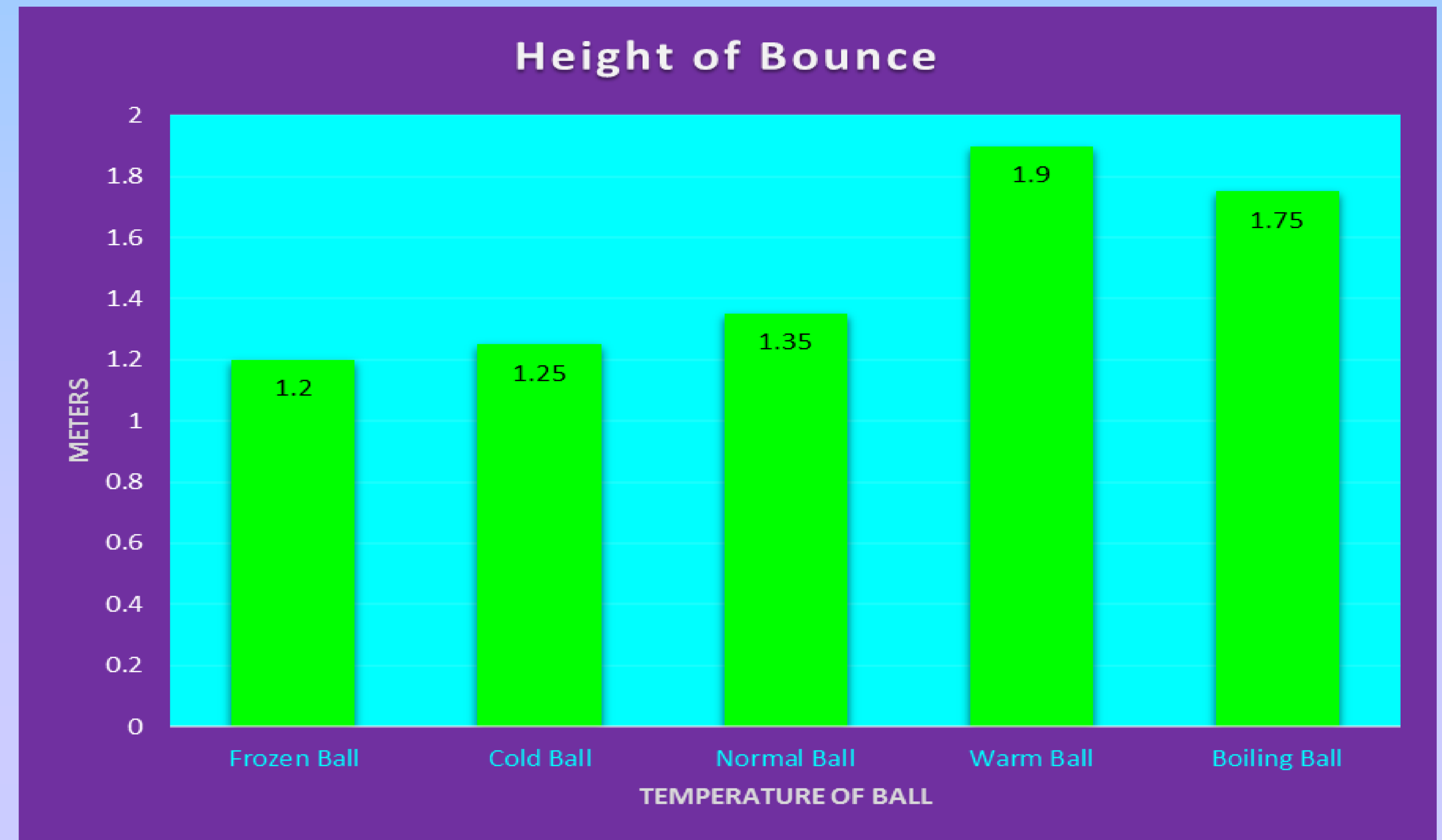
-Does the Temperature of a Bouncy Ball Effect its Bounciness?-

Aim: Our aim is to find out if the temperature of a small, rubber ball effects its bounciness.

Hypothesis: We believe that the warm ball will bounce higher than the cold ball because the warm ball will have more energy than the cold ball.

Equipment:

- 5 Bouncy balls
- A freezer
- A kettle
- 4 Containers
- Cold water
- Warm water
- Measuring tape



Method

Step 1: Get the five bouncy balls and four containers.

Step 2: Place one ball in each container.

Step 3: Put one of the containers in the freezer, one in the fridge, one in warm and the last one in boiling water.

Step 4: Leave the balls in the container of water for 30 minutes.

Step 5: After 30 minutes take all the balls out of the containers and drop them from a height of 1 meter.

Step 6: Measure the bounciness of each ball on a recording sheet.



Conclusion

We discovered that the temperature of a bouncy ball does effect the height it can be bounced. Our hypothesis was correct because the warm ball bounced the highest. We still believe this is because it has more energy.