

Table for Warm-up

Time (Days)	Plant Height (cm)
0 days	0 cm
1 day	1 cm
2 days	4 cm
3 days	9 cm
4 days	13 cm
5 days	15 cm

Warm-up

1. Create an appropriate **Line Graph** that will illustrate the relationship shown in the table.
2. Which is the **Manipulated Variable**?
3. Which is the **Responding Variable**?
4. Label the **X-axis**, Label the **Y-axis**
5. Choose an appropriate **Scale** and graph the data using **Ordered Pairs**.

“Review of the Scientific Method”



How do we know things?

I heard that...



...Wearing the new LeBron James Shoe will make me a better basketball player.

Q: How can I know if this is the TRUTH?

I could...

- 1. Research:** ask people, magazines, etc.
- 2. Experiment:** Try them out for myself

**Scientists have a special method for
doing experiments...**

“Scientific Method”

6 Steps

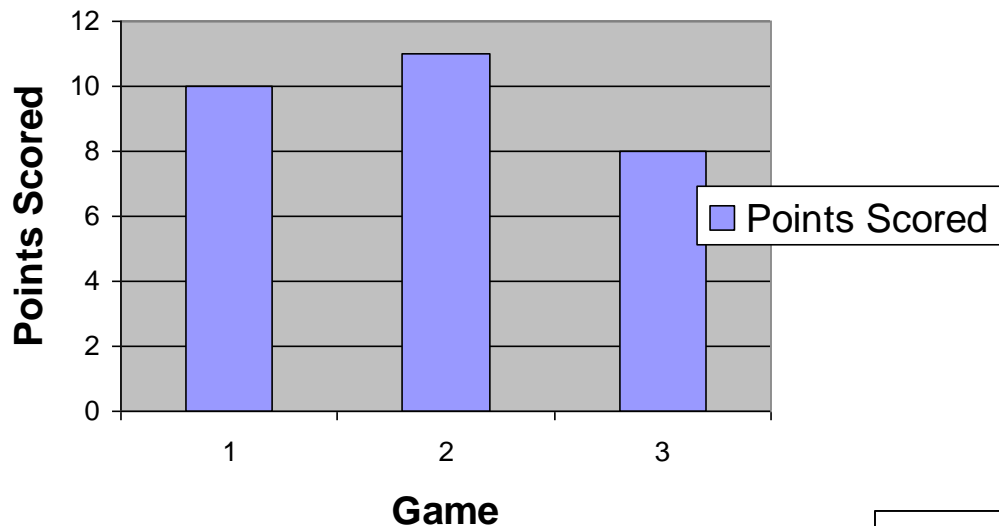
1. **Question** (find a problem)
2. **Observation** (Research)
3. **Hypothesis** (guess)
4. **Experiment**
5. **Record and Analyze results**
6. **Conclude** (“this is what we found...”)

LeBron Shoe Example...

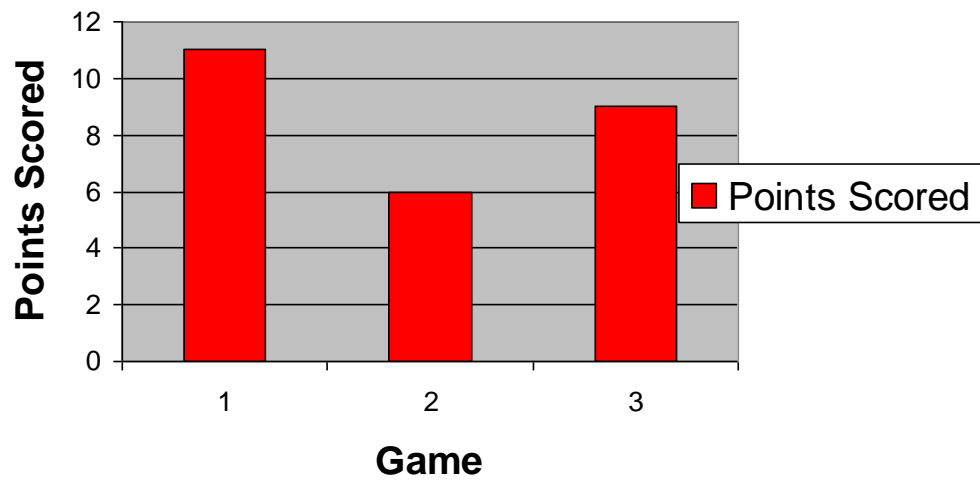
WEST COAST REMIX



Points Scored WITHOUT Lebron shoes



Points Scored WITH Lebron Shoes



Conclusion?...

LeBron Shoe Example

6 Steps

1. Question

1. Will the LeBron shoe help my game?

2. Research

3. Hypothesis

1. Guess
2. YES, I will score more points when I wear the LeBron shoe

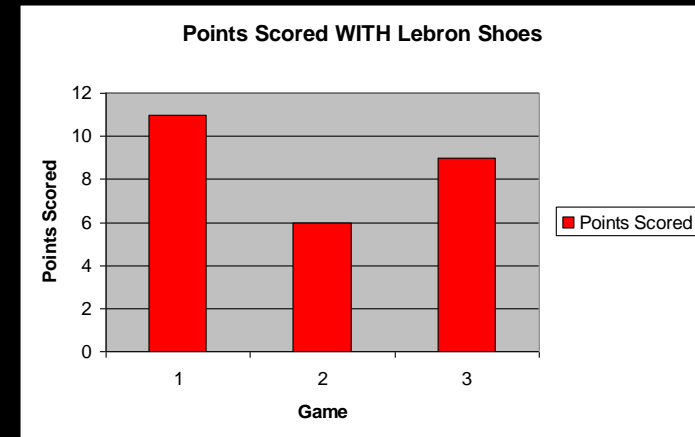
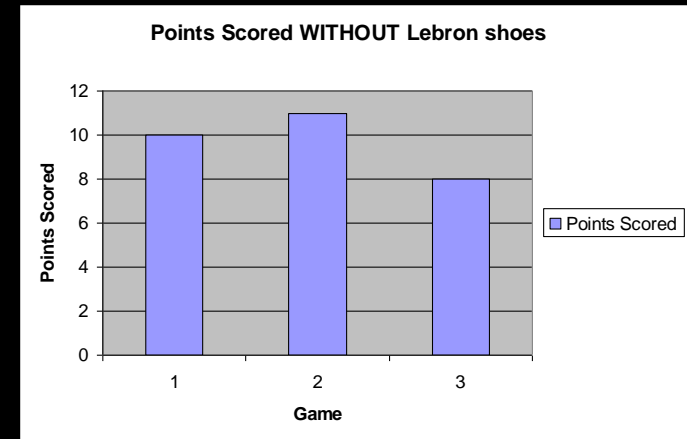
4. Experiment

5. Analyze

6. Conclude

After analyzing our data, we conclude that I still suck at basketball...

Conclusion: THE LEBRON SHOES DID NOT IMPROVE MY GAME.



In Review...

In the LeBron James Shoe example:

1. What was our QUESTION?
2. How could we research? (OBSERVE)
3. What was our HYPOTHESIS? (GUESS)
4. Explain our EXPERIMENT:
5. How did we arrange our data: (ANALYSIS)
6. What was our CONCLUSION?

Assignments:

HW:

1. National Treasure Worksheet
(extra credit)
2. Safety Sheet signed by end of next week
(Thurs/Fri)