

**INVESTIGATION QUESTION**

Does the distance between galaxies increase at the same rate, or do galaxies that start farther apart move more?

**HYPOTHESIS**

*Hint: try writing it as "If \_\_\_\_\_, then \_\_\_\_\_, because \_\_\_\_\_."*

**MATERIALS**

*balloon, marker, ruler, paper circles, tape*

**PROCEDURE**

*Summarize what you did in your own words.*

**Data Table**

<b>Galaxy Pair</b>	<b>Deflated</b>	<b>Half-Inflated</b>	<b>Fully Inflated</b>
Pair 1: ___ & ___			
Pair 2: ___ & ___			
Pair 3: ___ & ___			

**ANALYSIS**

Total increase for each pair (Fully Inflated minus Deflated):

Pair 1: \_\_\_\_\_ Pair 2: \_\_\_\_\_ Pair 3: \_\_\_\_\_

Which pair increased the most? \_\_\_\_\_

Which pair started farthest apart? \_\_\_\_\_

**CONCLUSION**

Was your hypothesis correct? What pattern did you find? What does this tell you about how the real universe expands?

**CONNECT IT**

Edwin Hubble discovered that farther galaxies appear to move away from us faster. Does your data support this? Explain.

**THINK FURTHER**

*Is there any dot on your balloon that is the center of the expansion? What does your answer mean for the real universe?*

**ADDITIONAL NOTES**