

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

Galaxy Pair	Deflated	Half-Inflated	Fully Inflated
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