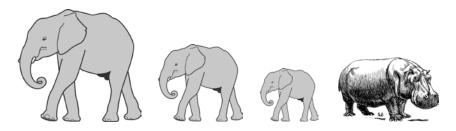


Critical Thinking – Student Activity

All Elephants are Grey - Discussion



Statement 1 "All elephants are grey"

Statement 2 "That animal on the right is grey. It must be an elephant!"

This expansion is a simple logical extension of the first statement but, is it correct? Discuss this with your group and write what you think below.

As scientists we have to reflect on what we know and decide if Statement 2 agrees with what we have already observed and read about. Is there anything we need to know or research before we decide if Statement 2 is true?

A good scientist does not make a statement based on only one observation then design an experiment

Hot, Buttered Cats – Discussion

Statement 1 Cats always fall on their feet

Statement 2 Buttered toast always falls buttered side down.



Does this mean that if you strap buttered toast onto the back of a cat and push off a high ledge, the cat will not fall?



Critical Thinking – Student Activity

Discuss how you could test the idea put forward in statement 2 and design an experiment to test this idea.
Use these headings
AIM (What are you testing?)
Materials (What equipment do you need?)
Method (What will you do?)
Observations (What could you see, feel, smell, and hear and what measurable data could you collect?)
Conclusion (What idea did the data collected support)