L.O: Understand how to use and apply ratio to describe a 'real' situation



http://www.youtube.com/watch?v=3ZtBeiGO5MA

http://www.youtube.com/watch?v=BnWYPMKRZhw



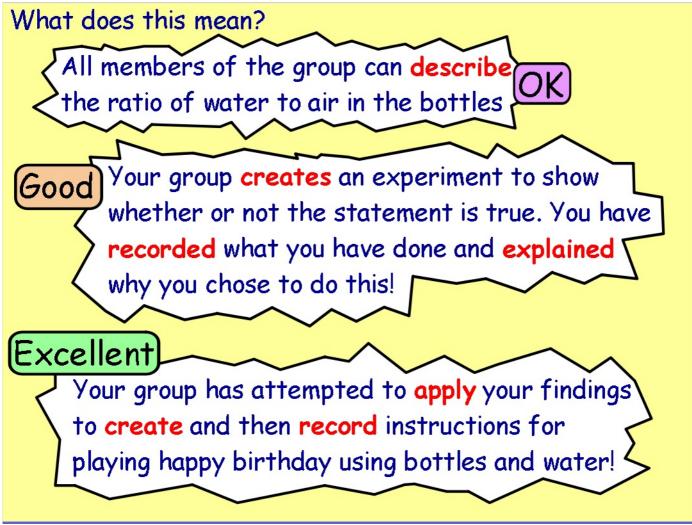
" A bottle filled with a different ratio of liquid to air will produce a different note when air is blown across the top."

What do we mean by an 'amount' of water or air?

" A bottle filled with a different ratio of liquid to air will produce a different note when air is blown across the top."

What does this really mean?

Page 3



You fill some bottles with different amounts of water... how are you going to record what you find out about these?

A table?

A list?

Labelled diagrams?

Are you describing the ratio of the **height** of water to air or the **volume** of water to air?

It's pretty easy to decide if a note is higher or lower than the last one... but how can I distinguish between ones that are really similar?

You have filled 4 bottles, they are 4 different notes. How do you record this?

Are some notes closer together than others? How can you record this?

You manage to create a tune... how can you record it so that another group could perform it (without talking to you?)

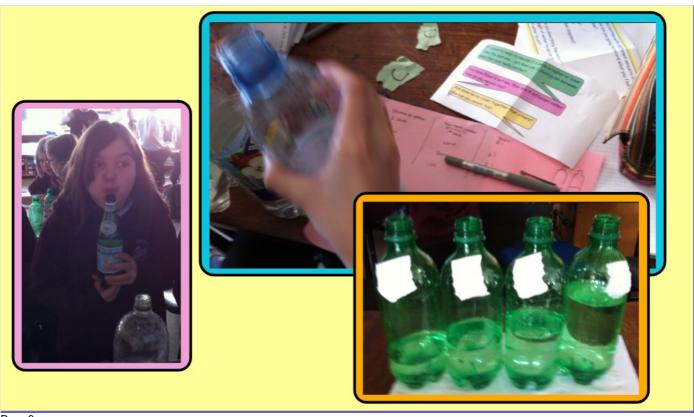
Key questions to sum up...

Why is there still water on your desks?!

What is the relationship between the ratio of air to water and the pitch of the note created?

How did you record your findings?

What was challenging about this investigation?



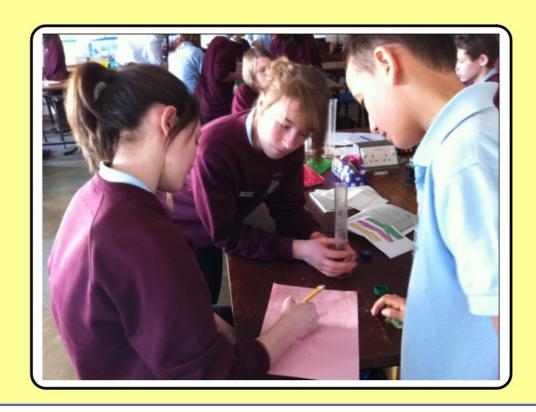
Page 9



Page 10



Page 11



Page 12



Page 13

