

The aim of this book is to provide resources to help busy Key Stage 1 teachers introduce practical science activities into their National Curriculum and QCA science lessons. The book covers the topics:

- Sound & Hearing
- Forces and Motion

The book provides a series of lessons with a number of different practical activities on the same theme. Individual classroom teachers will wish to choose which activities are most appropriate for their own individual situation. Each lesson has detailed notes for teachers giving learning objectives for each activity. Assessment activities can be found at the end of each section in the book.

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# How Can You Stop Sound Getting into Your Ears?

Name: .....

Date: .....



Try these ways of stopping sound. Which works best? Tick the box if you can hear the sound.

Ways of Stopping Sound					
 Stereo Headphones					
 Furry Ear Muffs					
 Workmen's Ear Defenders					
 Hands over Ears					

Which stopped the most sound?

Why was this best?



# Plan and Carry Out a Listening Investigation

Name: .....

Date: .....



My question is... **How can straw whistles make different sounds?**

### Equipment List

- straws
- scissors
- sellotape

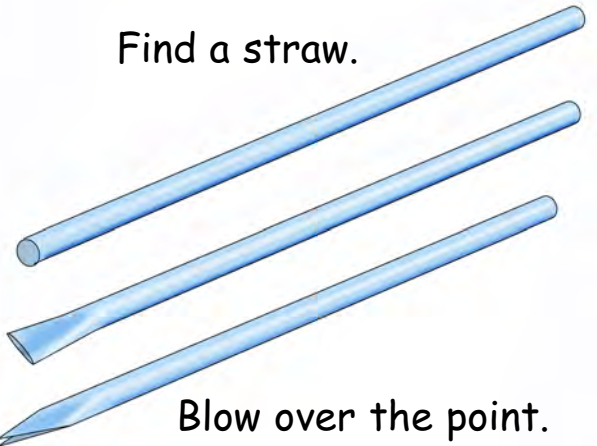
### Method

Find a straw.

Flatten one end.

Cut a point.

Blow over the point.



### I will change

Blank box for recording changes.

### I will keep this the same

I will blow gently into each straw in the same way.

### I will measure and record

Blank box for recording measurements and results.

### This is how I will make my test fair

Large blank box for describing the test procedure.

I predict that:



Some useful words: longer, shorter, higher, lower, pitch, attach, join, play.

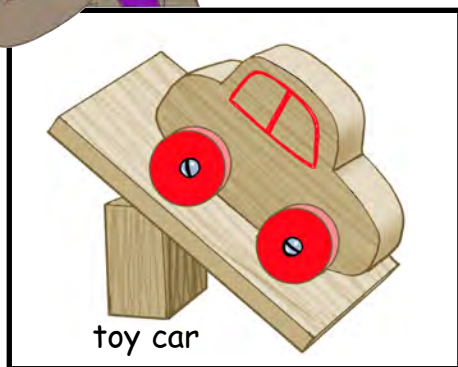
# Slowing Things Down

Name: .....

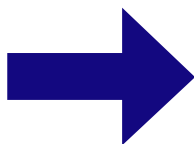
Date: .....



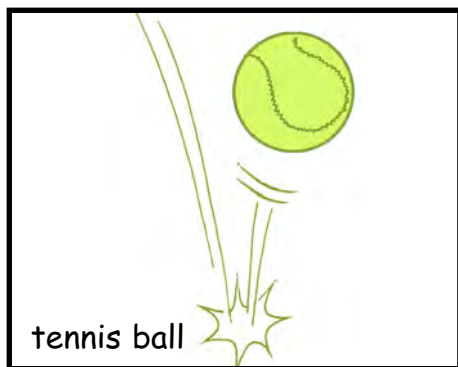
Make these things move and then decide 'How to slow them down.'



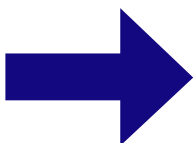
toy car



I slowed this down by...  
\_\_\_\_\_  
\_\_\_\_\_

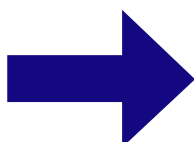
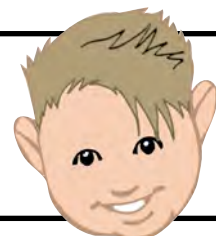


tennis ball

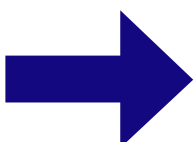
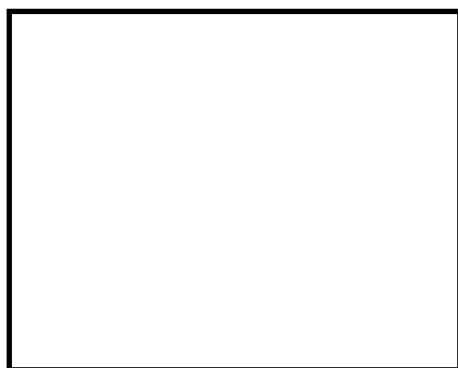


I slowed this down by...  
\_\_\_\_\_  
\_\_\_\_\_

Now make some other classroom objects move. Draw them below and write 'How to slow them down.'



I slowed this down by...  
\_\_\_\_\_  
\_\_\_\_\_



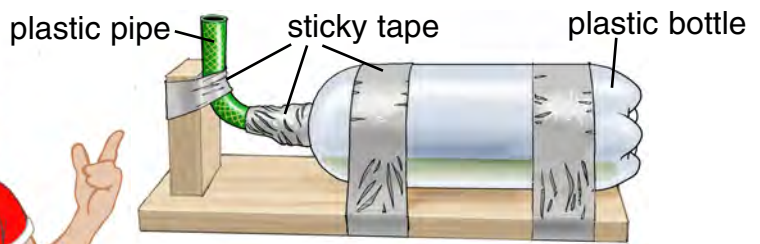
I slowed this down by...  
\_\_\_\_\_  
\_\_\_\_\_

# Air Powered Rockets

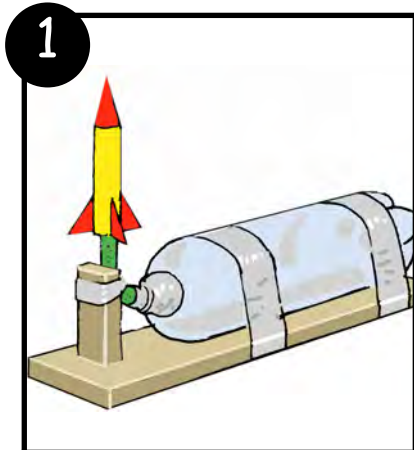
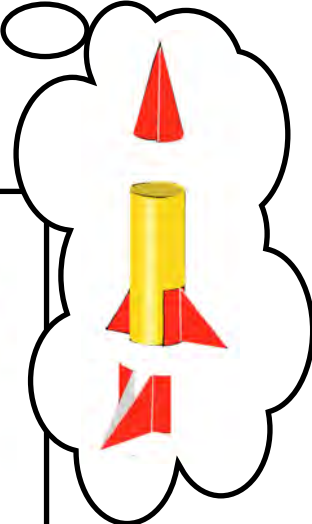
Name: .....

Date: .....

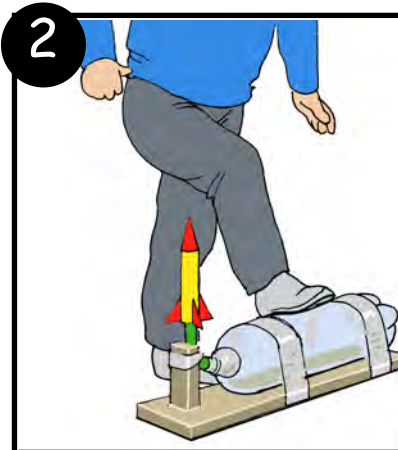
You will need a rocket launcher made from a plastic bottle like this.



Make some model rockets from cardboard tubes. Cover the top and decorate.



1 Place the rocket on the launcher.



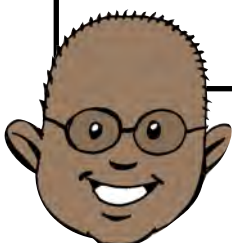
2 Stamp hard on the bottle.



3 What happens? Why?

Draw and write what happened.

Four horizontal lines for drawing and writing.



Talk to your group about which rocket worked the best. Can you improve on this?