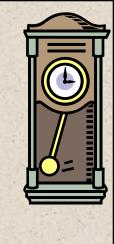
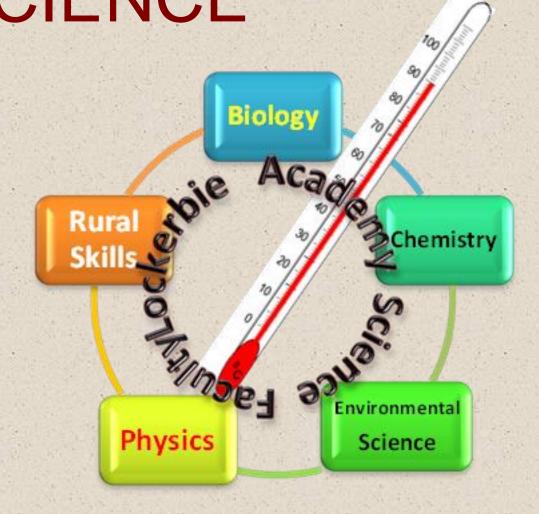
INVESTIGATION Slide 1 S1 SCIENCE





INVESTIGATION

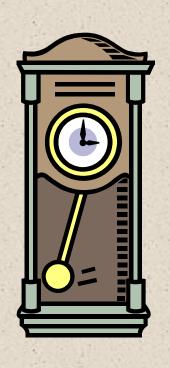
Slide 2

So WHAT is a pendulum?













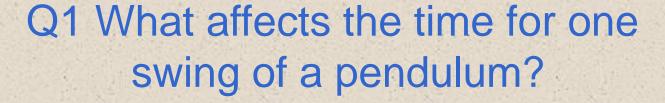


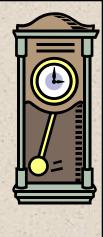






Something that swings back and forth







- Length of the pendulum
 - Angle of the swing
 - Mass on the end

With your teacher's help choose an investigation to do (pick one of the ones above)

Q2 What is the aim of your experiment?

OR What do you hope to find out?

To find out if the....

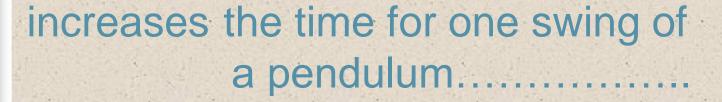
Length of the pendulum

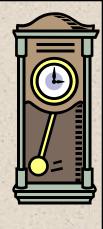
affects the time for one swing of a pendulum.



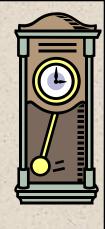
Q3 What will you expect to happen?

As the Length of the pendulum





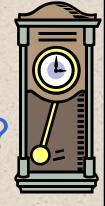
Q4 What variable will you change?



Look at the list in question 1 to help you!

HOW WILL YOU CHANGE YOUR VARIABLE?

Q5 What two things will you measure?



What <u>equipment will you use to measure</u> these two things?

Draw a diagram of your apparatus

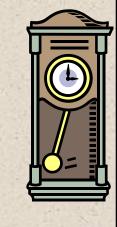


What is the problem with timing one swing of a pendulum?

> Reaction time! So how can we overcome this?

Time for 5 swings!



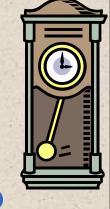


Q6 What variables (things) will you keep the same?

Use question 1 to help you!

Q7 Draw out a table of your results

Length of pendulum	Time for 5 swings (s)			Average time for 5
string (cm)	1	2	3	swings (s)



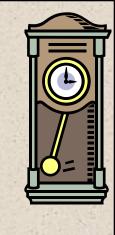
DO YOU KNOW WHAT YOU ARE GOING TO DO?

If YES then get on If NO put your hand up for help!

Plot a graph of your variable against time



What you changed goes here



WHAT DID YOU FIND OUT?

As the ----- increases, The time for one swing ---

Write up what you did carefully?

