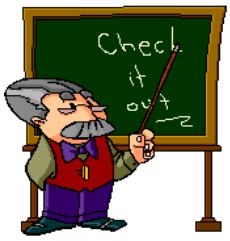
Science and Technology Challenge 2011

TIME TRAVEL



Professor Knowitall is very happy living in Planet Back in Time. Although Professor Knowitall sometimes feels it would be lovely to see what life was like in the future – just for a short time. Backintime, the friendly planet, does not have enough energy to catapult Professor Knowitall into the future, because they are an energy saving planet. Professor Knowitall really does deserve a holiday and it would be good fun if we could help him out.

Professor Knowitall needs your help urgently!!!

The Challenge

Can you help Professor Knowitall go on holiday to two of the THREE different planets. Fortunately Professor Knowitall is not very heavy.

We need you to design and make a catapult (NOT HAND HELD)that will send Professor Knowitall into space and land on TWO of his favourite planets.

Obviously Professor Knowitall will not be there to test your contraption, he is too famous. You will need to use ping pong balls instead (Professor Knowitall is very light.)

- **Key Stage 1 will be sending Professor Knowitall to Jupiter and Saturn**
- **Key Stage 2 will be sending Professor Knowitall to Saturn and Uranus**

Jupiter is **five** - into the - **future** metres away with a Five Star Hotel, a luxury garden and free ice cream all day.

Saturn which has a very large swimming pool, a lemonade foundation and a never ending sweet machine is **10** - into the **future** –metres away.

Uranus, the furthest planet away has a lovely sandy beach, dolphins to swim with and forest to relax in and is **15** - into the - future **metres** away.

The team or individual that manages to land all three ping pong balls onto his chosen planet will win.

If everyone lands Professor Knowitall onto the planets of the future – we will choose the winner that avoided the water and landed in the sand.

Remember

You **cannot** use:

- Ready made devices or catapults
- Your ping pong ball must be a standard size.
- The floor area of each planet will decrease in size - Jupiter will be the size of a hoola hoop. The other planets surface area will be smaller.
- The catapult must rest on the floor – you can use your hand to start the catapult off.
- All three ping pong balls must land in the sand and stay in the sand.
- The winner will be the person that gets all three, or the most ping pong balls into the three planets.
- You cannot touch the device once you have started it.
- You will be allowed three attempts.

Depending on the number of entries we will hold Key Stage 1 and Key Stage 2 heats on March 8th 9th and 10th.

The FINAL will be 10th March unless there are too many entries when Final Day will be the 17th March