



17 July 2024

CHINESE HATS

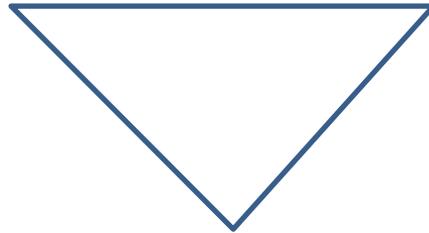
Aims

Design a Chinese hat to fall the slowest!

Chinese
Superstition: if
your hat hits
the floor, you
will get 5 years
bad luck!

Chinese Hat task

- You need to design the Chinese Hat that takes the longest time to fall.
- These are the forces I think are acting on the hat:



- I think that for the hat to fall as slow as possible I should ...

Your Design

- The things I could change about the hat (these are called independent variables) are:
- This is the design I think will fall the slowest
- This is because ...

How can you test

- Design an experiment to find out if your proposed design will take the longest time to fall out of all of the possibilities.
- You will need to present your data and convince every one!

I will change only one thing in my test. I will change.....

This is called the independent variable.

This is the design I think will fall slowest.

This is because

| | Time taken for hat to fall 2 meters |
|--------------|-------------------------------------|
| Test 1 | |
| Test 2 | |
| Test 3 | |
| Average time | |

Conclusion: I found out my hat tookseconds to fall.

To keep my test fair I kept the following things the same.....

After your experiment...

- Do you still think that the same design of hat will fall slowest?
- Can you be sure?
- Give your evidence.