

Paper Spinners

We have experimented with paper spinners.	First Drop Time		Second Drop Time		Third Drop Time		verall op Time	Average Drop Time
We have decided to change:								
	Here are the result of the other tests:							
* * * * * * * * * We have only changed one	Change	First Drop Time	Second Drop Time		Third Drop Time		Overall Drop Tim	
thing to make it a fair test.								
* * * * * * *								
We recorded the time it took the spinners to drop.								
* * * * * * *								
We repeated the test three times to work out the average time.	Conclu	sion: The be	e st sp	inner, v	vith the	gred	atest air re	esistance :

<u>Air Resistance – Paper Spinners</u> <u>Experiment</u>

Experiment 1

- 1. Give out the Paper Spinners Template. Show the children how to make the paper spinner.
- 2. Drop the spinner and ask the children to observe carefully.
- 3. Drop it again. Ask the children to describe anything they notice about it: how fast it falls, whether it turns, whether is falls differently at the start.

Experiment 2

- 4. Explain that we want to make the best possible paper spinner. Brainstorm different things we could change about the spinner size, type of paper, number of paper clips, length of the wings. Record ideas on whiteboard.
- 5. Divide into 4 groups and each change **one variable**:

Group 1: size

Group 2: type of paper

Group 3: number of paper clips

Group 4: length of wings

- Ask the children to record on WorkSheet.
- 7. Discuss results.