**LO: To plan and conduct a fair test**

Which design is most effective for a paper helicopter falling to the ground slowest?

**Variables:**

To keep my test fair I will make sure that I:

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I will measure the time taken for the helicopters to drop/the number of spins the blades make before they hit the floor.

I will drop my helicopters from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_m.

My variations of my helicopters are (you could add a paper clip to make it heavier, angle the cuts on the wings, make it smaller, make the rotator blade shorter, make one using card etc.):

1. Normal, as designed
2.
3.
4.
5.

**Prediction**

I predict that the helicopter with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will fall slowest because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Results**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1st drop | 2nd drop | 3rd drop |
| Copter 1 |  |  |  |
| Copter 2 |  |  |  |
| Copter 3 |  |  |  |
| Copter 4 |  |  |  |
| Copter 5 |  |  |  |

**Conclusion**

I found that the helicopter with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fell slowest to the ground/completed the most spins before hitting the ground. I think this was because \_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.