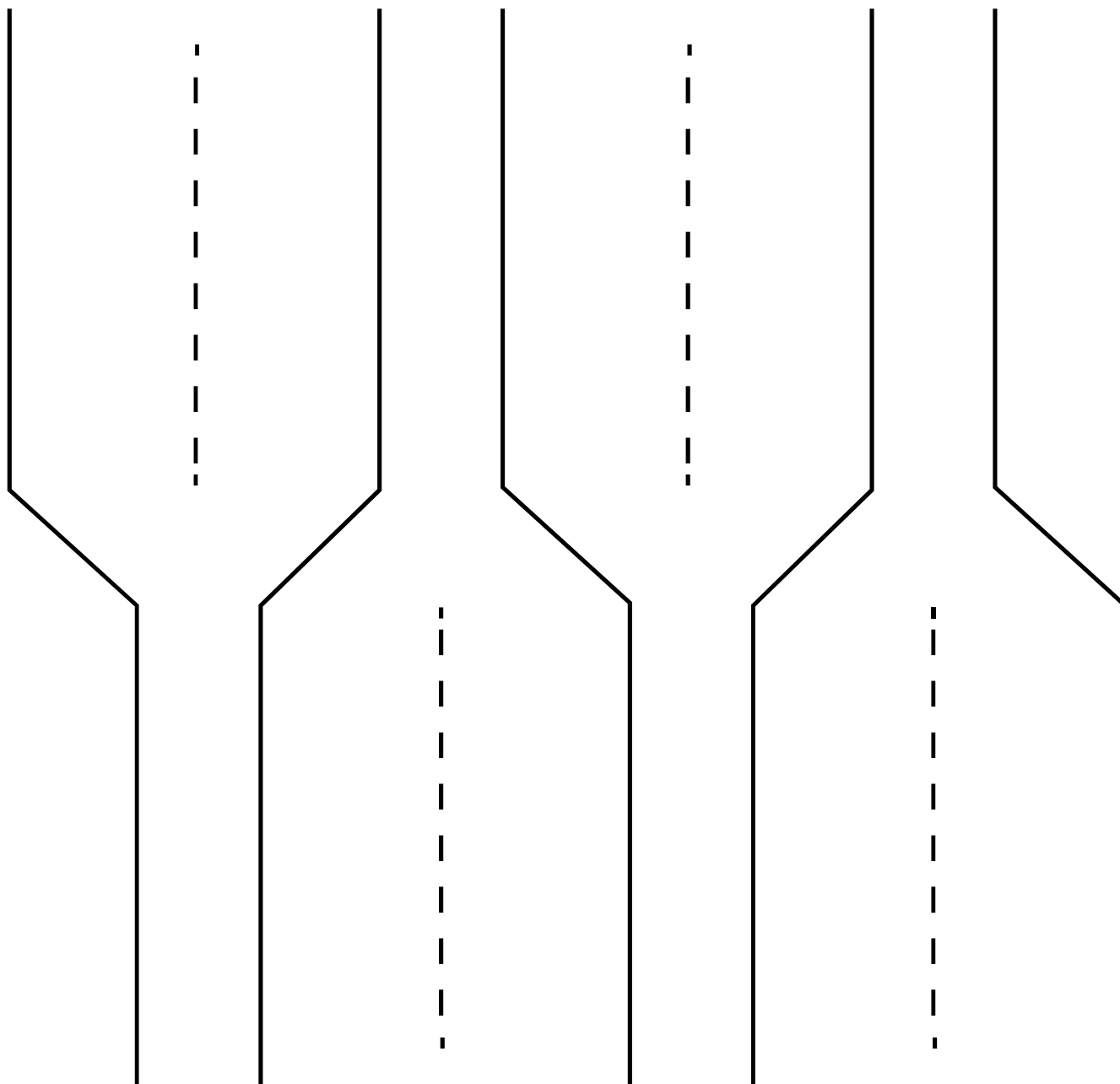
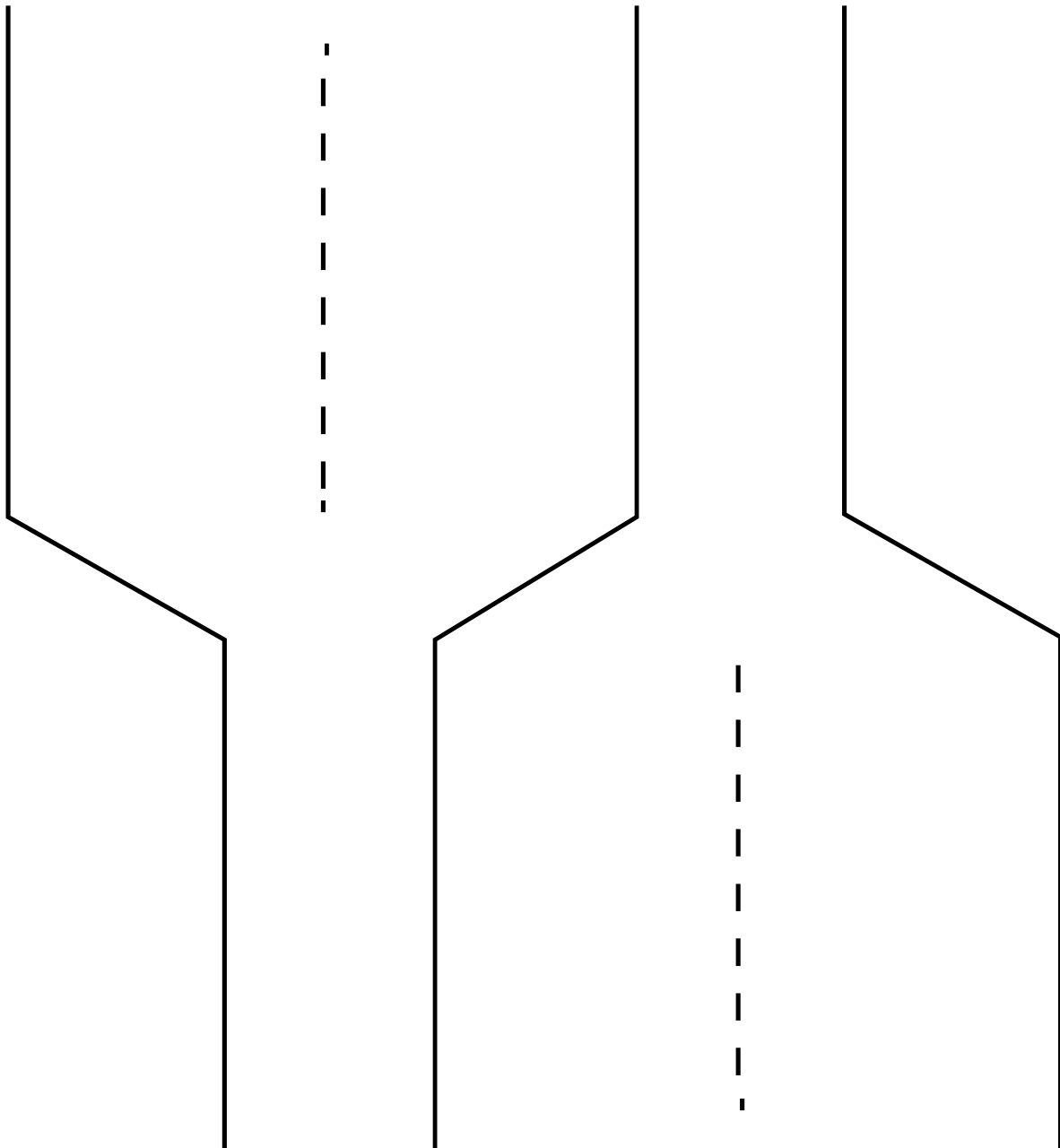


Resource D

Gyrocopter Template - Medium



Resource D

Gyrocopter Template - Large

Resource E

Gyrocopter Investigation

Does the size of the wings on a gyrocopter affect the time it takes to fall?

What is air resistance or drag?

My prediction: What I think will happen in this investigation:

Method:

Results	Time (in seconds)		
	Test 1	Test 2	Test 3
Size of wing:			
Small			
Medium			
Large			
Average time			

My Conclusion (answer the question for investigation)

When the size of the wing is _____ it takes _____ for the gyrocopter to reach the ground. This is because:

Resource F

Air Resistance Challenge

Time

You have one hour:

- 15 minutes for planning and design;
- 30 minutes for making; and
- 15 minutes for testing.

Your teacher will tell you to stop after one hour.

Scoring

The judge(s) will score you in three areas:

- planning and designing - maximum 20 points;
- making - maximum 20 points; and
- testing - 5 points for every second the egg takes to fall
 - 5 extra points for not cracking the egg.

The judge's decision is final.

Remember!

The object of the challenge is to make the egg take the longest time to fall to the ground. This means you have to increase the drag (air resistance).