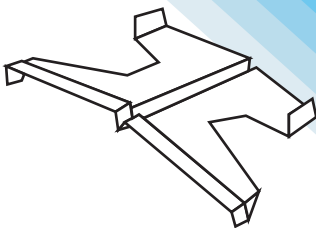


Glider Testing



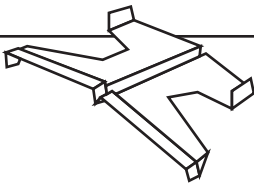
STEP ONE: Distance Trials

While testing your gliders, note the type of glider and the distance for each trial flight.

Trials #	1	2	3	4	5
Glider Name _____					
Glider Name _____					
Glider Name _____					
Glider Name _____					
Glider Name _____					

STEP TWO: Testing Maneuvers

Try these maneuvers with each glider.



Glider Name	Maneuver	Right Aileron	Left Aileron	Rudder	Elevator	Trials				
						1	2	3	4	5
	Rising Left									
	Rising Right									
	Diving Left									
	Diving Right									
	360° Roll									

Points: 3 = Successful, 2 = Partially done, 1 = Not successful

Glider Name _____

Maneuver	Right Aileron	Left Aileron	Rudder	Elevator	Trials				
					1	2	3	4	5
Rising Left	Down	Up	Left	Up					
Rising Right	Up	Down	Right	Up					
Diving Left	Down	Up	Left	Down					
Diving Right	Up	Down	Right	Down					
360° Roll	Up	Down	Neutral	Neutral					

Glider Name _____

Maneuver	Right Aileron	Left Aileron	Rudder	Elevator	Trials				
					1	2	3	4	5
Rising Left	Down	Up	Left	Up					
Rising Right	Up	Down	Right	Up					
Diving Left	Down	Up	Left	Down					
Diving Right	Up	Down	Right	Down					
360° Roll	Up	Down	Neutral	Neutral					

Glider Name _____

Maneuver	Right Aileron	Left Aileron	Rudder	Elevator	Trials				
					1	2	3	4	5
Rising Left	Down	Up	Left	Up					
Rising Right	Up	Down	Right	Up					
Diving Left	Down	Up	Left	Down					
Diving Right	Up	Down	Right	Down					
360° Roll	Up	Down	Neutral	Neutral					

Glider Name _____

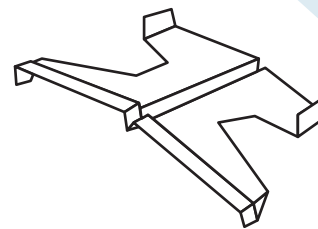
Maneuver	Right Aileron	Left Aileron	Rudder	Elevator	Trials				
					1	2	3	4	5
Rising Left	Down	Up	Left	Up					
Rising Right	Up	Down	Right	Up					
Diving Left	Down	Up	Left	Down					
Diving Right	Up	Down	Right	Down					
360° Roll	Up	Down	Neutral	Neutral					

Points: 3 = Successful, 2 = Partially done, 1 = Not successful

STEP THREE: Modifying the Design

Glider Name: _____

Modification: _____

**Distance Trials**

Trial 1	Trial 2	Trial 3	Trial 4	Trial 5

Maneuver Trials

Maneuver	Right Aileron	Left Aileron	Rudder	Elevator	Trials				
					1	2	3	4	5
Rising Left	Down	Up	Left	Up					
Rising Right	Up	Down	Right	Up					
Diving Left	Down	Up	Left	Down					
Diving Right	Up	Down	Right	Down					
360° Roll	Up	Down	Neutral	Neutral					

Glider Name: _____

Modification: _____

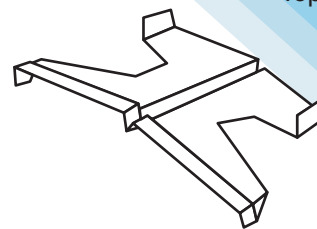
Distance Trials

Trial 1	Trial 2	Trial 3	Trial 4	Trial 5

Maneuver Trials

Maneuver	Right Aileron	Left Aileron	Rudder	Elevator	Trials				
					1	2	3	4	5
Rising Left	Down	Up	Left	Up					
Rising Right	Up	Down	Right	Up					
Diving Left	Down	Up	Left	Down					
Diving Right	Up	Down	Right	Down					
360° Roll	Up	Down	Neutral	Neutral					

Points: 3 = Successful, 2 = Partially done, 1 = Not successful

**STEP FOUR: Debriefing**

1. Before modifications, which glider flew the furthest? _____

How far did it fly on average? _____

What was the furthest it flew? _____

2. Before modifications, which glider scored the most points on maneuvers?

How many points were awarded in total for this prototype? _____

3. What modifications did you make and why?

Glider Name: _____

Modification: _____

Glider Name: _____

Modification: _____

4. Did either of your modified gliders improve your distance and maneuverability results? Enter your final best scores below:

Distance Trials

Glider Name: _____ Pilot's Name: _____

Best Distance Score: _____

Average distance score on five trials: _____

Testing Maneuver

Glider Name: _____ Pilot's Name: _____

Best point score for maneuvers: _____