

ALLEN MIDDLE SCHOOL

7TH GRADE TECH. ED. STYROFOAM AIRPLANE

The assessments

Fabrication: plane parts are assembled in their appropriate positions; edges of parts are smoothly sanded; plane is symmetrical; motor is mounted longitudinally and parallel to the top of the fuselage; back of motor is not touching anything

Aerodynamics: Airfoil has been included in the leading edge of the wing; parts are attached at right angles to the fuselage and are level

Performance: Plane was airborne in less than two laps around the tower; plane flew straight and level; plane completed ten laps around the tower; all plane parts stayed together throughout the ten- lap flight

Rubric number = grade

12=100%	11=97%	10=95%	
9=92%	8=89%	7=86%	
6=84%	5=81%	4=79%	
3=75%	2=71%	1=69%	0=60%

Assessment Rubric					
Student Name:				Grade 7	
Assignment: Styrofoam Airplane					
	4 Excellent	3 Good	2 Fair	1 Poor	Teacher's Rating
Criteria 1 – Fabrication	airplane parts are mounted in the proper positions; all parts have their edges sanded smoothly; plane is symmetrical; motor is securely mounted longitudinally; wires are on each side of the fuselage; back of motor is free	airplane parts are mounted in the proper positions; edges are not sanded smoothly; plane is symmetrical; motor is securely mounted longitudinally; wires are on each side of the fuselage; back of motor is free	airplane parts may not be mounted in the proper positions; some parts may not have their edges sanded smoothly; plane is not symmetrical; motor is securely mounted longitudinally; wires are on each side of the fuselage; back of motor is free	parts are not installed in the proper positions; edges are rough; plane is not symmetrical; motor not mounted correctly; back of motor is touching the fuselage or is glued	
Criteria 2 – Aerodynamics	airfoil is present along the leading edge of the wing; parts are attached at right angles to the fuselage and are level	airfoil is present along the leading edge of the wing; parts are attached at right angles to the fuselage but are crooked	airfoil is present along the leading edge of the wing; parts are not attached at right angles to the fuselage and may not be level	no airfoil is present or is installed improperly	
Criteria 3 – Performance	plane did not hit the tower; plane took flight in less than two laps; plane flew straight & level; plane completed ten laps; plane did not break up in flight	plane did not hit the tower; plane took flight in less than two laps; plane pitched during flight; plane completed ten laps; plane did not break up in flight	plane did not hit the tower; plane took more than two laps to take flight; plane may have pitched during flight; plane completed ten laps; plane did not break up in flight	plane either hit the tower, broke up during flight, or crashed into ground, thus not completing 10 laps	
			total pts. = grade →		

Teacher Comments:

