

## **Vocabulary:** Terms to Know (about Engineering): **Objective**: 1) Write a memory note for at least 10 terms. 2) Write your Reference. 3) Do Not Write the Definition. 1) Bernoulli's Principle 1) Design and produce multiple solutions for the O-Wing problem using the given criteria, 2 class determined variables and your data. 2) center of gravity Write Class determined variables (centimeters) here: 3) constraint Front a) O-loop width -Back b) O-loop circumference (length) Front Back 4) criteria c) Fuselage (straw) length d) Fuselage diameter 2) Select your Best Solution. Record your data: 5) **Design:** The plan for and/or arranging elements in such a way as best to accomplish a particular purpose. Circle the Class determined variables you used. Memory Note: Build or draw for a particular purpose. Reference: www.vocabulary.com a) O-loop width \_\_\_\_\_ b) O-loop circumference 6) drag c) Fuselage length d) Fuselage diameter e) Cargo placement \_\_\_\_\_ f) Best Practice Distance \_\_\_\_\_m 7) durability 3) Demonstrate your Best O-Wing in scheduled gym flight. 8) Engineering: The application of scientific & mathematical principles to practical ends such as the design, manufacture, & Record Your Best Scheduled Gym Flight Distance/ m operation of efficient & economical structures, machines, processes, & systems. Memory Note: Use science and math to design, build and/or operate structures or systems. Reference: www.thefreedictionary.com To fly a Hoop Glider: Hold the straw in the middle with the hoops on top and throw it in the air 9) evaluation similar to how you might throw a dart, angled slightly up. 10) evolve Your Grade for Last Week: 11) gravity Yours Required **Objective + Grade** 10 12) lift Calico Cat 10 13) priority Mitosis - Meiosis 30 Genome &/or Family Traits 5 14) rationale Genetic Fingerprinting-Grizzlies? 30 15) solution Quizzes 28 What2Learn 10 16) thrust Extra 17) trade-off Total 123 Yours / Required X 100 = your % 18) viable / X 100 = % Look up your % in Gradebook % 19) weight Up or Down?(个or↓?) 20) weight vs. mass Look for blanks & Labels on Calendar' Hand in Late! Do "If Time".

- 1) Design and produce multiple solutions for the O-Wing problem using the given criteria, at least 2 class variables and your data.
- 2) Select your Best O-Wing Solution from your data.
- Demonstrate your Best O-Wing Solution in a scheduled gym flight.