

MODEL ROCKET READING QUESTIONS

Please answer these questions on a separate sheet of paper. Use the "Model Rocket Reading" to answer them.

- 1) What are 3 important forces governing the movement of a model rocket?
- 2) Gravity is applied to a point called the "center of _____."
- 3) What is *drag*?
- 4) Drag is applied at a point called the "center of _____."
- 5) Where does thrust come from?
- 6) What is the key to creating a stable, high-performance model rocket?
- 7) What is *thrust*?
- 8) What is thrust produced by?
- 9) What is *gravity*?
- 10) What is the *center of gravity*?
- 11) Where will an object balance?
- 12) A rocket is not symmetrical, so the center of gravity will be closer to the _____ part of the rocket.
- 13) When does the center of gravity move forward in a rocket?
- 14) Explain how to find the center of gravity with a ruler.
- 15) How can you find the center of gravity mathematically?
- 16) What is air resistance caused by?
- 17) The amount of drag is dependent on the projected _____.
- 18) Where does the majority of the drag come from?
- 19) The center of pressure is usually towards the _____ of a rocket, behind the center of _____.
- 20) In order for a rocket to be stable, the center of _____ must be behind the center of gravity.
- 21) A typical model rocket has a Coefficient of Drag (CD) of about _____.
- 22) What will reduce the CD, but also cause the stability to go down?
- 23) What's the easiest way to find your rocket's center of pressure?