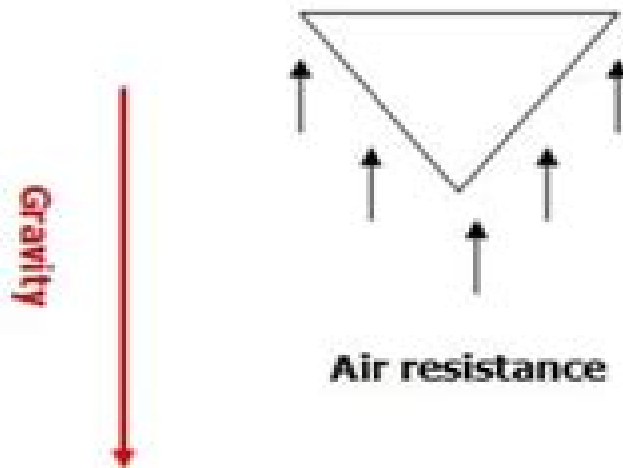


Diagram 1.

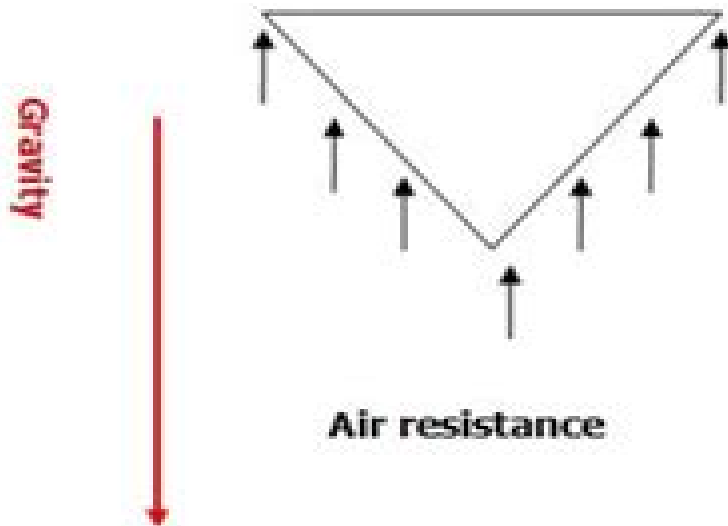
Parachute with small surface area



Less particles hit so
the parachute fell
faster.

Diagram 2.

Parachute with large surface area



More particles hit so
the parachute fell
slower.

Gcse Physics Parachute Experiment Mass

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Theory and Experiment on Parachute Opening Shock and Filling Time Helmut G. Heinrich, University of Minnesota. Department of Aerospace Engineering and Mechanics, Royal Aeronautical Society, 1971 A method of parachute opening force and filling time calculation is presented which is based on the time functions of aerodynamic drag included air mass apparent mass and effective porosity Using the momentum and continuity equations an idealized canopy shape development and a linear drag area time relationship expressions are obtained for the canopy volume and velocity The calculated peak forces agree well with at least mean square averages of field test results of 28 ft solid flat parachutes deployed at speeds from 175 to 450 fps at altitudes of 6 000 13 000 and 21 000 ft and with suspended weights between 200 and 820 lb

Experimental Investigation of Added Mass During Parachute Deceleration Brad Charles Cochran, 1991 *Experimental Determination of Parachute Apparent Mass and Its Significance in Predicting Dynamic Stability* T. Yavuz, D. J. Cockrell, American Institute of Aeronautics and Astronautics, 1981

Flight Test of a 31.2-foot-diameter Modified Ringsail Parachute Deployed at a Mach Number of 1.39 and a Dynamic Pressure of 11.0 Pounds Per Square Foot John S. Preisser, Clinton V. Eckstrom, Harold N. Murrow, 1967

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- Chapter 5: Conclusion

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