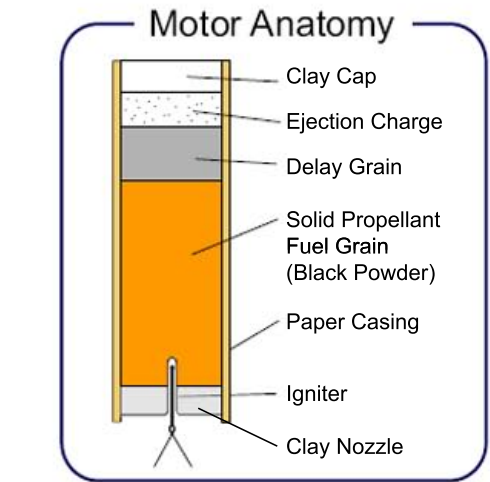
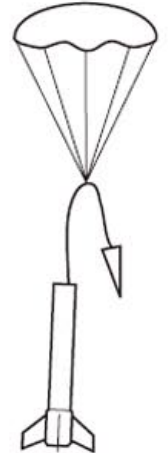
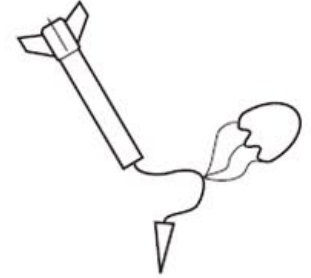


Model Rocket Flight Profile

Ejection

When the delay grain has been consumed the ejection charge is ignited. The hot gases generated pressurise the rocket body tube. This pressure pushes off the nosecone and ejects the recovery system out of the rocket.

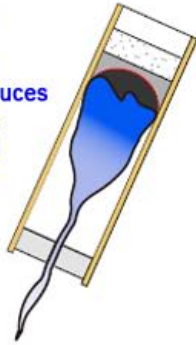


Touchdown!



Coasting

When all of the solid propellant has been consumed, the delay grain ignites and produces a trail of white smoke. This aids in the visual tracking of the model rocket.



Acceleration

The thrust continues, pushing the rocket faster and faster, until all of the propellant is consumed.

Liftoff

The solid propellant fuel grain quickly burns within the motor casing, creating lots of hot gas and pressure. Thrust is generated by the escaping gases exiting through the nozzle at supersonic speed.

Ignition

A small electrical charge from the launch controller ignites the pyrogen at the tip of the igniter. This ignites the propellant in the motor and the rocket lifts off the pad.

