Installing nose weight into the Saturn 1B rocket kit

In order for the rocket to fly straight, we need to add clay as weight to the nose cone. This is to move the CG to the proper location.

The amount of clay you need depends on two things: the engine you plan on using to launch the rocket, and whether or not you added canted fins to the rocket.

The chart shown here is based on using a F "EconoJet" motor from Aerotech. If you use a larger motor, you'll have to add additional weight to move the CG to the proper location. For reference, see the chart below.

The reference point from which measurements are made is the tip of the Apollo capsule, NOT the tip of the escape tower.

Configuration	CP Location	Min. Nose Mass	Approx. Length of Clay
Straight Fins	20.9 in.	48 g	2-1/16 inches
2° Fin Cant	22.9 in.	25 g	1-1/16 inches