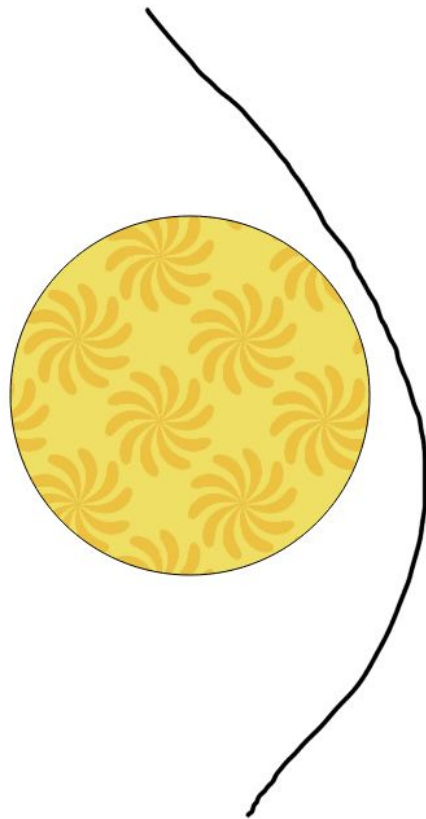
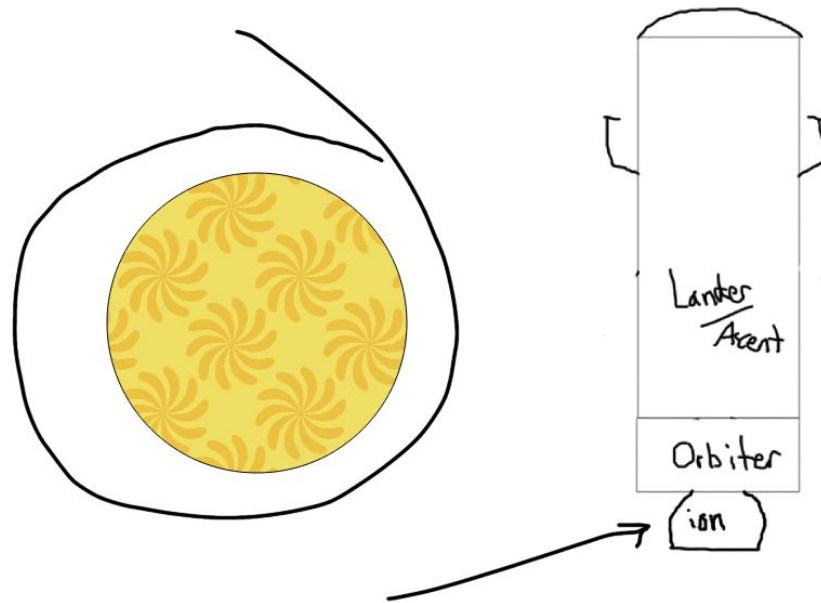


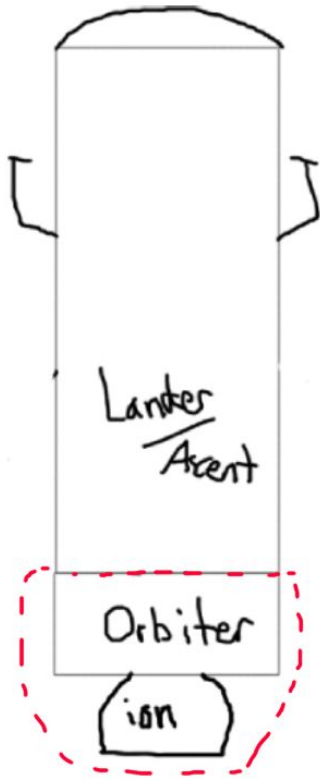
Full landing/ascent vehicle (LAV) view. Thruster, tank, and comms considerations need to be made further but for a wholistic concepts here ya go



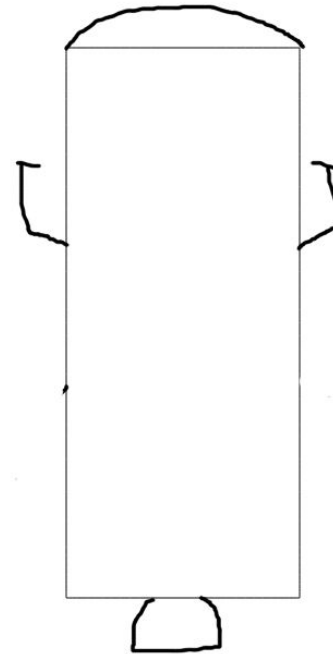
Original Trajectory into  
Titan is parabolic

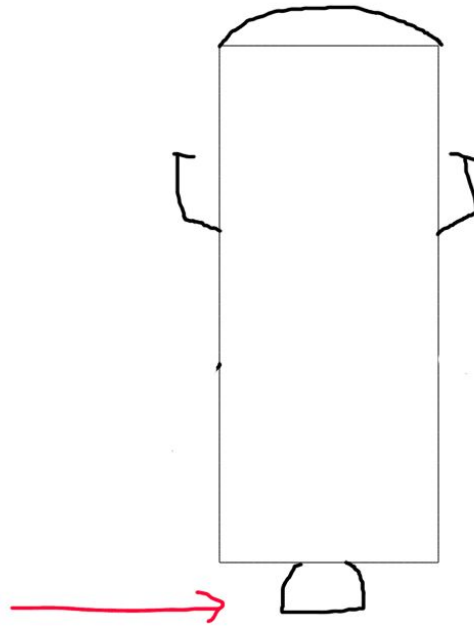
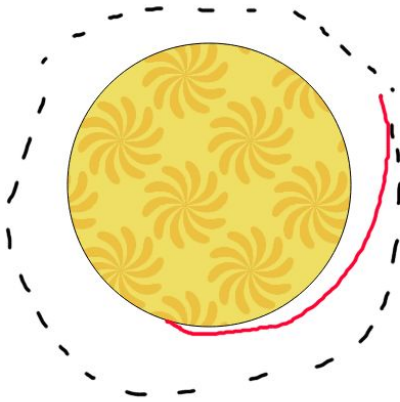


Still connected long burn  
w/ ion engine into eventual  
circular orbit. Drawing  
makes it seem easy but  
imagine probably more  
spirals



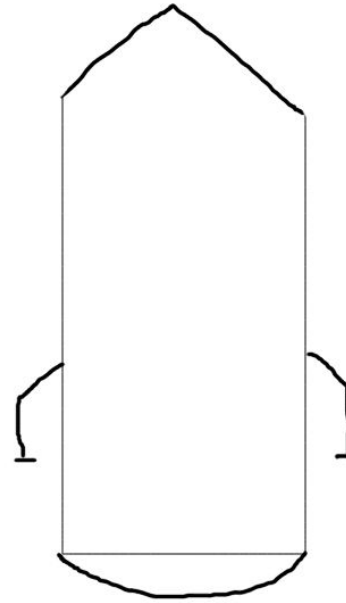
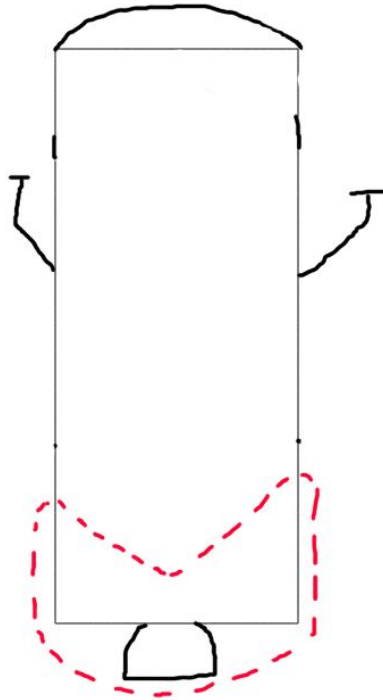
Separate orbiter from  
lander/ascent

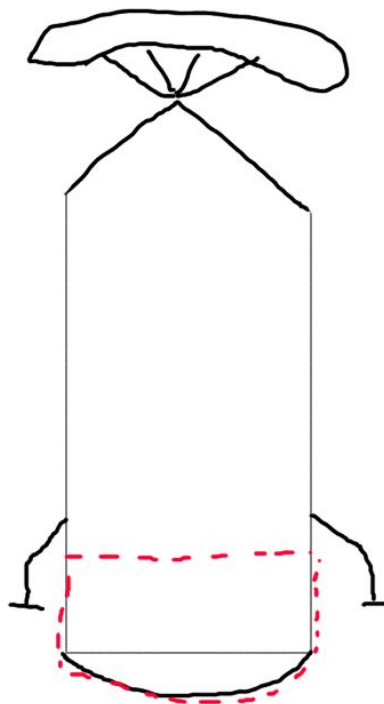




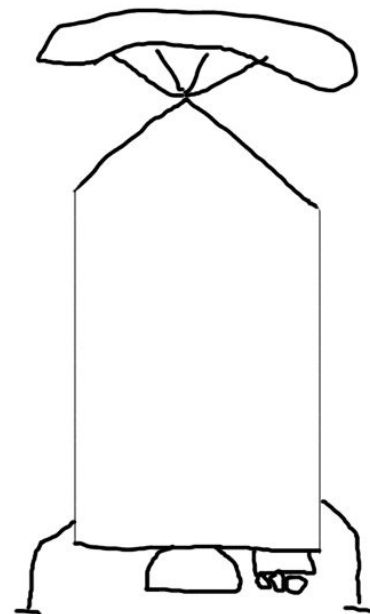
Use descent thruster to  
de-orbit into atmosphere

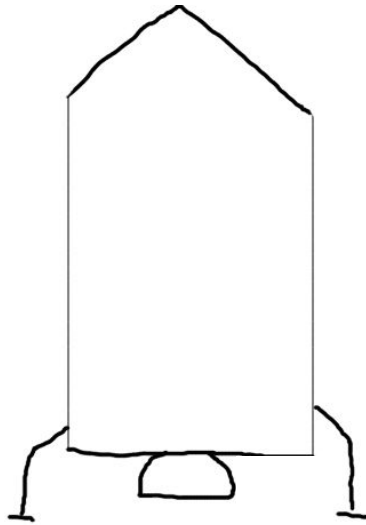
Pop descent thruster  
segment, perform 180,  
and aerobrake with heat shield  
until parachute can be  
popped





Pop heat shield/land. Now is where you dropoff rover and do all surface ops. Key note is sample must reach TOP of landed structure as that is the parts which will return to ascend





Use ascent thruster to get  
back to earth somehow



Arrive at earth without  
blowing up on arrival  
somehow, pop ascent  
thruster segment, and use  
heat shield/aerobraking  
until parachute

