Variables (PostHon (2C, 7, Z) Velocity (VX, Vy, VZ) Fred throttle level walltime Due monday 18th 08 October.

Throst will be constant.

3 ms-2 When empty (0 Suel)

Throttle Srom 20% - 100%, also 0% (doi.org/10.2514/6.2006-5220)

Turnesse at rateos 20% per Second

Increuse at rateof 20% per Second.

Space but to increase thrust. Shift to decrease thrust.

Arrow Keys provide x-y thrust.

Much less Man main thruster, but also
use less suel. Instantly throttle to 100%.

Landry stre will be rocky, must land inacteur spot.

when Z = 0, total velocity ($\sqrt{v_x}, v_y, v_z$)
must be less than 1 ms^{-1} .

Graphics: Use a single bit map and Zoom as Zis decreused. crosshair in centre, for aiminglander.
readouts of suel level, velocity, and height.

ScienNGic Compulying: Lab Sessions: Tuesday 14:00-17:00

Clive Granger, B29

Thursday 14:00-17:00 Mating a cake. - Some People cun
make good cultes. Anologies should not betaten too Sar. Newton was belter at physics Man us. you can't larn composing remotely No exam! Attending the lats is good.

IS cade isn't running on the
Marker's computer can appeal the mark and demonstrate on own computer.
mark and demonstrate on own computer.
Project!
Project: Jupyter labdiagy.
Figures, with captions destibling
Figures, with captions destibing how they were objained.
Free choice of individual project.
project.

each loop: az= Fz total mass + mooney VZ= VZ + UZ Xdt 2= dt x V2 + 7

	Todo:
	Impliment withinggare.
	Implinent controls
	Implinent withinggare. Implinent controlg Implinent graphics Implinent seed checking on landing Implinent readouts.
	Inolinear readouts.
	Emp
	n. n. c
	Big Balls
	(740)
,	

$$S = \frac{1}{2}at^{2}$$

$$S =$$

$$h = \frac{1}{\sqrt{1 + \frac{1}{2}}} = x$$

$$h \times \tan \left(\frac{\theta_{2}}{2}\right) = x$$

$$2 h \tan(\theta/2) \quad \theta = 80^{\circ} \text{ seems reasonable}$$

$$(onst \rightarrow 0.839)$$

$$= 1.678$$

1.678

1 m up = Nahve res.

2x = 800 px at 1 M

MOON-5:20 X 1.678 h = Scaled MOON SiZe



