

8.1.3 Task - How much does energy change? (Print 2 copies and place in plastic sleeves)

MASS (kg) experimental lander velocity = 50 m/s (about 100 mph)	Energy (kJ)
200 kg	250 kJ
400 kg	500 kJ
600 kg	750 kJ
800 kg	1,000 kJ
1000 kg	1,250 kJ
1200 kg	1,500 kJ
1400 kg	1,750 kJ
1600 kg	2,000 kJ

VELOCITY (m/s) experimental lander mass = 1000 kg (about 2200 lbs)	Energy (kJ)
10 m/s	50 kJ
20 m/s	200 kJ
30 m/s	450 kJ
40 m/s	800 kJ
50 m/s	1,250 kJ
60 m/s	1,800 kJ
70 m/s	2,450 kJ
80 kg	3,200 kJ