

Fill in the following chart

Name _____

Imagine a rock inside a vacuum chamber. The rock is released from the top of the chamber (80.0 m) and falls by **gravity only**. The rock has a mass of 0.500 kg.

You will need to tap ALL your knowledge of Physics to complete this.

Time (s)	Final Vel (m/s)	Distance fallen (m)	Height from ground <i>h</i> (m)	KE (J)	PE (J)	Total Energy (J)	Work (J)	Power (W)
0	0	0	80.0	0	392	392	0	0
1.00	9.80	4.90	75.1	24.0	368	392	(done by gravity) 24.0	24.0
2.00	19.6	19.6	60.4	96.0	296	392	96.0	48.0
3.00	29.4	44.1	35.9	216	176	392	216	72.0
4.00	39.2	78.4	1.60	384	8.00	392	384	96.0