## Chapter C6: Intro to Energy Practice

## Physics I

College of the Atlantic

1.	You drop a 5	kg box	of tempeh	down a	well that	is 50	meters	deep. V	What is	the speed	of
	the box right	before !	it reaches t	he botto	om of the	well?	Do this	s proble	em two	ways:	

- (a) Use the ground as the reference point.
- (b) Use a point ten meters above ground as the reference point.
- 2. A 0.25 kg TAB mug is dropped the top of a 10 meter platform. What is its speed right before it hits the ground? What is the mug's speed if it is dropped from a 20 platform? What is the speed just before impact of a 0.5kg plate dropped from the 10 meter platform?
- 3. A TAB mug is thrown from a 10 meter rooftop. When the mug hits the ground its speed is 20 m/s. At what speed was it thrown?
- 4. You throw a TAB mug straight up at 20 miles per hour. How high in the air will it go?
- 5. From what height should you drop something if you want it to hit the ground at 10 m/s? From what height should you drop something if you want it to hit the ground at 20 m/s?