

Name: _____

Date: _____

Astron 211 OOM #4 Energy

OOM Policy: You can work in pairs or groups of 3 if desired. You can consult class notes and books — no phones or computers. Make sure you are clear about the process you use to solve the problems: partial credit will be awarded. Always include units.

1. What is the total energy content of all of the food you've eaten in J?

2. How much did that food weigh?

3. If instead you got that same energy through fusion of hydrogen into helium, how much hydrogen would you have needed?