

# PHYS178 – Assignment 8

**Due: Monday 27 October 2008**

This assignment contributes 2% to your final grade. Please write brief answers directly on the sheet in the spaces provided (and on the back if necessary). The assignment should be turned into the PHYS 178 assignment box on level 2 of E7B, just outside the doorway to E7A.

1. What are some of the constraints on a model of Solar System formation?
2. What is a Planetesimal and how do they form?
3. Why is it overwhelmingly likely that a solar nebula would begin spinning?
4. According to the solar nebula model of the formation of the Solar System, why is Jupiter and Saturn so much larger than Uranus and Neptune?
5. Describe the likely stages of the death of our sun.