

SIO 15 (Fall 2024) – Week 2 worksheet – Topics 1-4

~~FULL NAME AND STUDENT ID:~~

- Forces, mass and acceleration
- stress and strain
- potential energy of a coil spring
- potential and kinetic energy – a mass sitting on a slope

- What causes Earth tides?

- How are Earth, Moon and Sun arranged during Full Moon and New Moon?

- How do the Moon phases relate to spring and neap tides?

- How often do we have spring tides?

- Why do we not have a lunar eclipse every Full Moon?

- the three principal material properties

- Earth's layers (3-layer and 5-layer model)

- Lithosphere and Asthenosphere

- Isostasy

- Earth's magnetic field (3 parameters)