

1. Know/Explain how oil and gas are formed
 - a. Decayed plant & animal (microscopic organisms)
 - b. Sediment layering
 - c. Heat & pressure
 - d. Non-porous layer (cap rock)
2. Know the 4 types of oil traps (fig. 11.1 and notes)
3. Be able to describe how oil and gas are found (offshore)
 - a. Hydrophones produce sound waves
 - b. 3-D imaging
 - c. "Wildcat " wells are drilled (test drilling)
 - d. Strike oil: drill "delineating" wells
 - e. No strike: analyze core samples
4. Know the types of drilling platforms.
 - a. Understand how "directional drilling" works
 - b. What are the advantages of "directional drilling?"
5. Explain the physical/human factors that affect the decision to recover offshore oil.
6. Be able to discuss the environmental impacts of offshore oil disasters.
 - a. Exxon and BP oil disasters.