1) Draw a profile of a beach and label the major features

2) Compare and contrast “winter” and “summer” beaches.

3) For a particular estuary the salinity of the incoming water is 35°/oo and the salinity of the outflowing water is 25°/oo. The average daily evaporation is 100,000m³, and the daily precipitation + runoff is 120,000m³. The total volume of the estuary is 1,500,000m³. Draw a cross-section of the estuary showing the general circulation pattern. Calculate the average volume of water that flows out of the estuary on a daily basis and the minimum flushing time.
4) What effect does the building of dams on rivers have on deltas and beaches?

(Drawings may be helpful for the next few questions...)

5) What is a tombolo and how does the construction of a breakwater create something similar?

6) What is longshore current and how does it affect the distribution of sediments along the shore?
7) Describe the effects that groins and jetties may have on a beach. Why do these changes occur?

8) What is a rip current and how does it form?