Historical GEOLOGY 102		Name:	
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Cepalopod Lab

- 1. List the phylum, class, family or order, ammonite suture pattern (if applicable), and genus for each of the specimens 1-13.
- 2. Draw the general soft-part cephalopod morphology and label its parts (fig. 9.8).
- 3. Draw a cephalopod and label its parts (fig. 9.12).
- 4. Draw the inner morphology of Nautilus (Fig. 9.10).
- 5. Where do cephalopods live and describe their lifestyle (how they swim)?
- 6. What are the three main subclasses of cephalopods and how do they differ?
- 7. What is the time range of the three subclasses of cephalopods and when was their peak?
- 8. When did the first cephalopods appear in the fossil record and what was the evolutionary history?
- 9. Describe the evolution of the ammonoids and what is the difference in suture patterns between the Paleozoic and Mesozoic ammonoids.
- 10. Draw and describe the difference between the ammonitic, ceratitic, goniatitic, and orthoceratitic suture patterns.
- 11. What is an index fossil and which type of cephalopod was the most useful one in the Mesozoic and why?
- 12. What is sexual dimorphism and what is the evidence for this in ammonite shells?
- 13. Describe the paleoecology of variously shaped cephalopods.
- 14. What forms dominate the gastropods fauna today and where do they live?
- 15. Draw and describe the soft-part morphology of squids.
- 16. Draw and describe the morphology of belemnites.
- 17. What subclass are most living cephalopods? Describe the various types of environments and ways of swimming, etc.