

Echinoderm Lab

1. List the phylum, class, family or order, and genus (if possible) for each of the specimens 1-12.
2. What are the distinctive distinguishing features of echinoderms?
3. What does the water vascular system consist of and how does it serve the echinoderm?
4. What kind of skeleton do echinoderms have?
5. Describe the symmetry of the echinoderms.
6. Draw the general soft-part echinoderm (both echinoid and crinoid) morphology and label its parts.
7. What are the characteristics of the major 6 classes?
8. Where do echinoderms live and describe their lifestyle?
9. What is the time range of the three major fossilized classes of echinoderms and when was their peak?
10. When did the first echinoderms appear in the fossil record and what was the evolutionary history of the various classes?
11. Describe the paleoecology of the various classes of echinoderms (lifestyles of 5 major types).
12. What subclass are most living echinoderms?
13. Describe or draw the physical difference between cystoids, blastoids, and crinoids.