

CLASSIFICATION WORKSHEET

Name _____

Directions: Answer all the questions on a scantron and turn in the scantron. Save the actual worksheet for your notes as a study supplement.

CRITTER CHART ONE

| | CRITTER I | CRITTER II | CRITTER III | CRITTER IV |
|---------|---------------|--------------|-------------|---------------|
| Phylum | Echinodermata | | | |
| Class | | | Asteroidea | |
| Order | Forcipulata | Forcipulata | | |
| Family | Heliasteridae | Asteriidea | | Heliasteridae |
| Genus | Pisaster | Orthasterias | Pisaster | Evasterias |
| species | ochraceus | koehleri | brevispinus | trochellii |

Procedure: Using only the information in the chart above fill in as many boxes as you can. For items 1 - 5 use the Key below to answer the questions posed. Note that two letters precede some choices. If you select one of these, you must mark both letters. Key choices may be used once, more than once, or not at all.

- KEY:
- | | |
|------------------------|---------------------------------------|
| A. Critters I and II | AB. Critters III and IV |
| B. Critters I and III | AC. Critter I and any other Critter. |
| C. Critters I and IV | AD. Critter II and any other Critter. |
| D. Critters II and III | AE. Critter III and any other Critter |
| E. Critters II and IV | BC. Critter IV and any other Critter. |

1. According to the chart ABOVE which critters are most closely related?
2. According to the chart ABOVE which critters are most DISTALLY related?
3. According to the chart ABOVE which critters have the most structural characteristics in common?
4. According to the chart ABOVE which critters have the least structural characteristics in common?
5. According to the chart ABOVE which critters have the most genes in common?