

Key Words – Phylum Echinodermata

Phylogeny
Deuterostomia
Pentaradial symmetry
Body orientation
Rotation of 90°
Flattened on oral-aboral axis
Class Asteroidea
Water vascular system
Hemal system
Hemal rings
Madreporite
Ring canal
Tiedemann bodies
Polian vesicles
Radial canal
Ampulla
Lateral canal
Tube feet
Body wall
Coelom
Dermal branchiae
Spine
Ossicles
Radial nerve
Ambulacral groove
Gonads
Pedicellaria
Ambulacral locomotion
Internal anatomy
Pyloric caeca
Cardiac stomach
Pyloric stomach
Anus
Eversion of cardiac stomach
Extra-corporal digestion
Asexual reproduction
Regeneration
Sexual reproduction
Dioecy
External fertilization
Larval development
Bipinnaria larva
Ciliary band

Brachiolaria larva
Juvenile sea star
Class Ophiuroidea
Brittle stars
Articulated ossicles
Bursa slits
Class Echinoidea
Urchins
Sea/sand dollar
Internal test
Herbivores
Long digestive tube
Teeth
Aristotle's lantern
Class Holothuridae
Sea cucumber
Tentacles
Filtration feeding
Ring canal
Respiratory tree
Calcareous ring
Chemical defense
Aposematic colouration
Class Crinoidea
Sea lily
Feather star
Calyx
Crown
Arms
Pinnules
Filtration feeding
Cirri