

Study Topics for Exam 3: The Final

Endless Voyage 118: Building Blocks

(Chapter 13: Life In the Ocean)

- 1) Trophic Relationships and the Trophic Pyramid
- 2) Biogeochemical Cycles
 - a) Carbon Cycle
 - b) Nitrogen Cycle
 - c) Phosphorus Cycle
 - d) Silicon Cycle
- 3) Physical and Biological Factors that Affect Critters

Endless Voyage 119: Water World

(This episode contains material from chapters 13 and 15)

Endless Voyage 120: Food For Thought

(This episode contains material from chapters 13 and 14)

(Chapter 14: Plankton, Algae and Plants)

- 1) Diatoms
- 2) Dinoflagellates
- 3) Coccolithophores
- 4) Silicoflagellates
- 5) Picoplankton
- 6) Primary Productivity and its Distribution
- 7) Zooplankton
 - a) Krill
 - b) Jellies
 - c) Forams

Episode 121: Survivors, Episode 122: Life Goes On

(Chapter 15: Marine Animals)

- 1) Phylum Porifera
- 2) Phylum Cnidaria
- 3) Worm Phyla
 - a) Annelida (including the class Polychaeta)
 - b) Nematoda
 - c) Platyhelminthes
- 4) Phylum Mollusca
 - a) Gastropoda
 - b) Bivalvia
 - c) Cephalopoda
- 5) Phylum Arthropoda
 - a) Why are they so special?
 - b) Crustacea
- 6) Phylum Echinodermata

(Chapter 15 Continue)

7) Phylum Chordata

- a) Invertebrate Chordates
- b) Vertebrate Chordates
 - 1) Fish
 - a) Class Agnatha
 - b) Class Chondrichthyes
 - c) Class Osteichthyes
 - d) How they cope with their environment
 - 2) Amphibians
 - 3) Marine Reptiles
 - 4) Marine Birds
 - 5) Marine Mammals
 - a) Order Cetacea
 - 1) Odontoceti
 - 2) Mysticeti
 - b) Order Carnivora
 - 1) Pinnipedia
 - 2) Fissipedia
 - c) Sirenia

Endless Voyage 123: Living Together

(Chapter 16: Marine Communities)

- 1) Distribution of Critters
- 2) Controlling Factors of Change in Marine Communities
- 3) Marine Communities
 - a) Rocky Intertidal
 - b) Seaweed
 - c) Beach
 - d) Salt Marshes/Estuaries
 - e) Coral Reefs
 - f) Open Ocean
 - g) Deep Seafloor
 - h) Deep Rock Communities
 - i) Hydrothermal Vent and Cold Seep Communities
 - j) Whale Fall

Endless Voyage 124: Treasure Trove

(Chapter 17: Marine Resources)

- 1) Physical Resources
 - a) Hydrocarbons
 - b) Sand and Gravel
 - c) Magnesium
 - d) Salts
 - e) Manganese, Phosphate
 - f) Metallic Sulfides and Muds
 - g) Freshwater
- 2) Marine Energy
 - a) Wind
 - b) Waves and Currents
 - c) Thermal Gradient
- 3) Biological Resources
- 4) Nonextractive Resources

Endless Voyage 125: Dirty Water

(Chapter 18: Environmental Concerns)

- 1) Marine Pollution
- 2) Habitat Destruction
- 3) Marine Sanctuaries
- 4) Global Changes

Endless Voyage 126: Hands On

(This episode contains material from Pages 3-6, 29-32, 462, and 479-481.)

You will get one hundred (100) objective type questions on the exam and three additional essays from the topics listed on this study guide. Be sure to review both the movies and the textbook.