

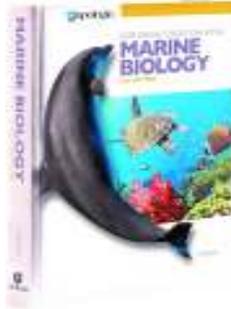


PRESENTS

# Exploring Creation with Marine Biology 2<sup>nd</sup> Edition

Video Instruction DVD

Modules 1 - 4



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## Introduction to DVD

Course Introduction (00:45) 

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## Module 1

Introduction (00:28) 

The Geography of the Oceans (01:54) 

The Earth's Structure (03:30) 

Continental Drift and Plate Tectonics (09:05) 

Plate Interactions -- Experiment 1.1 (08:08) 

Features of the Ocean Bottom (03:58) 

Properties of Water (07:50) 

Seawater -- Experiment 1.2 (08:04) 

Salinity, Temperature and Density -- Experiment 1.3 (12:41) 

Light in the Sea (01:18) 

Pressure (01:40) 

The Motion of the Ocean -- Experiment 1.4 (10:20) 

Waves -- Experiment 1.5 (04:18) 

Tides (04:11) 

Vertical Motion (02:24) 

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## Module 2

Introduction (01:14) 

The Process of Life (04:37)   
Photosynthesis -- Experiment 2.1 (08:47)   
Respiration -- Experiment 2.2 (09:52)   
Cells (05:13)   
Levels of Organization (03:29)   
The Challenge of Life in the Sea (01:55)   
Diffusion and Osmosis -- Experiment 2.3 (19:42)   
Temperature (07:37)   
Reproduction in the Sea (01:49)   
Asexual and Sexual Reproduction (04:15)   
Reproductive Strategies (02:43)   
Classifying Life in the Sea (09:09)   
Summing Up (00:56) 

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### Module 3

Introduction (02:29)   
Kingdom Monera (11:22)   
Kingdom Protista: The Unicellular Algae (02:38)   
Diatoms (06:41)   
Dinoflagellates -- Experiment 3.1 (09:46)   
Kingdom Protista: The Marine Protozoans (02:04)   
Foraminiferans (01:52)   
Radiolarians (01:03)   
Ciliates -- Experiment 3.2 (05:32)   
Kingdom Protista: The Multicellular Algae (03:36)   
Green Algae (01:40)   
Brown Algae (01:52)   
Red Algae (01:51)   
Reproduction of Multicellular Algae (06:22)   
Kingdom Fungi (02:18)   
Kingdom Plantae (00:43)   
The Seagrasses (01:34)   
Saltwater Marsh Plants (00:48)   
The Mangroves (01:21)   
Summing Up (00:52) 

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### Module 4

Introduction (01:42)   
Phylum Porifera -- Experiment 4.1 (11:20)   
Phylum Cnidaria (06:23) 

- Class Hydrozoa (01:23) 
- Class Scyphozoa (01:29) 
- Class Anthozoa (03:33) 
- Phylum Ctenophora (00:58) 
- The Bilateral Worms (01:51) 
- Phylum Platyhelminthes (04:36) 
- Phylum Nemertea -- Experiment 4.2 (10:27) 
- Phylum Nematoda (00:42) 
- Phylum Annelida (01:20) 
- Class Polychaeta (01:38) 
- Lophophorates (01:52) 
- Summing Up (01:02) 



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Modules 5 - 6



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### Module 5

- Introduction (00:39) 
- Phylum Mollusca (01:51) 
- Class Gastropoda (02:27) 
- Class Bivalvia (04:06) 
- Class Cephalopoda (04:20) 
- Other Mollusk Classes (00:33) 
- Mollusk Biology -- Experiment 5.1 (15:02) 
- Phylum Arthropoda (03:24) 
- Class Crustacea (05:52) 
- Crustacean Biology -- Experiment 5.2 (10:16) 
- Other Arthropod Classes (01:22) 
- Phylum Echinodermata (02:55) 
- Class Asterozoa -- Experiment 5.3 (21:39) 
- Class Ophiurozoa (01:43) 
- Class Echinozoa (02:01) 
- Class Holothurozoa (01:49) 
- Class Crinozoa (01:08) 
- Echinoderm Biology (03:05) 
- Phylum Chordata (02:06) 
- Subphylum Urochordata (01:53) 
- Subphylum Cephalochordata (01:00) 

Summing Up (01:25) 

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## Module 6

Introduction (02:22) 

Class Agnatha (02:36) 

Class Chondrichthyes (07:33) 

Rays and Skates (04:01) 

The Bony Fishes -- Experiment 6.1 (08:35) 

The Biology of Fishes (03:29) 

Coloration in Fishes (04:04) 

Locomotion (01:54) 

Feeding and Digestion (04:36) 

The Circulatory System (01:16) 

The Gills and Respiratory System (05:21) 

Osmoregulation and Osmosis (01:47) 

The Nervous System in the Fishes -- Experiment 6.2 (33:50) 

Social Behavior (01:51) 

Migrations (05:05) 

Reproduction in the Fishes (06:25) 

Summing Up (02:11) 

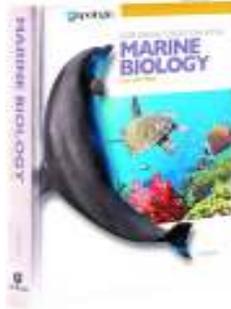


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Modules 7 - 11



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### Module 7

- Introduction (00:48) 
- Class Reptilia (16:18) 
- Class Aves (01:57) 
- Gulls and Similar Birds (01:11) 
- Penguins (02:22) 
- Shearwaters and Similar Birds (02:07) 
- Pelicans and Similar Birds (01:47) 
- Birds at the Shore (00:29) 
- Class Mammalia (00:54) 
- Order Cetacea (09:06) 
- Order Sirenia (02:54) 
- Order Pinnipedia (02:35) 
- Order Carnivora (01:23) 
- Echolocation -- Experiment 7.1 (11:03) 
- Movement in the Water -- Experiment 7.2 (07:28) 
- Behavior (06:17) 
- Mating and Reproduction (03:44) 
- Summing Up (00:22) 

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### Module 8

- Introduction (00:35) 

The Ecosystem (03:36)   
Population Growth (07:20)   
Predator and Prey Relationships (02:20)   
Symbiosis (05:07)   
Trophic Relationships (07:50)   
Primary Productivity -- Experiment 8.1 (13:14)   
The Carbon and Nitrogen Cycles (05:01)   
Environmental Zones (03:42)   
Summing Up (00:29) 

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## Module 9

Introduction (00:52)   
Intertidal Communities (03:21)   
The Rocky Intertidal (01:20)   
Rocky Intertidal Abiotic Conditions (05:27)   
Intertidal Feeding and Reproduction (02:14)   
Wave Action (03:35)   
Surviving the Waves (04:23)   
Zonation of the Rocky Intertidal (02:57)   
The Upper Intertidal Zone (02:49)   
The Middle Intertidal Zone (09:48)   
The Lower Intertidal Zone (02:29)   
The Sandy and Muddy Intertidal -- Experiment 9.1 and 9.2 (20:00)   
Survival in the Mud (05:12)   
Summing Up (00:31) 

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## Module 10

Introduction (01:12)   
The Ice Age: The Most Likely Cause of Most Estuaries (07:55)   
Types of Estuaries (03:18)   
Abiotic Factors in Estuaries (06:41)   
Estuarine Communities (03:44)   
Estuarine Habitats (00:51)   
Wetlands -- Experiment 10.1 (10:01)   
Mudflats (05:47)   
Channels (01:07)   
Estuary Production (01:45)   
Summing Up (00:39) 

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## Module 11

Introduction (00:34) 

Coral Reef Requirements and Locations (04:06) 

Reef Composition (02:00) 

Coral Reef Formation and Growth -- Experiment 11.1 (15:33) 

Types of Reefs (13:18) 

Coral Reef Ecology (04:14) 

Reef Relationships (03:01) 

Symbiotic Relationships (03:10) 

Summing Up (00:43) 



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Modules 12 - 16



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### Module 12

- Introduction (00:37) 
- Physical Features of the Continental Shelf (03:44) 
- Soft-Bottom Shelf Communities (03:41) 
- Unvegetated Soft-Bottom Communities -- Experiment 12.1 (14:20) 
- Vegetated Soft-bottom Environments (03:28) 
- Hard-Bottom Shelf Communities (03:55) 
- Kelp Beds and Forests (07:59) 
- Sea Urchins (02:24) 
- Summing Up (00:47) 

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### Module 13

- Introduction (00:26) 
- The Epipelagic Zone (02:40) 
- Life in the Epipelagic (03:46) 
- Epipelagic Phytoplankton (04:56) 
- Epipelagic Zooplankton -- Experiment 13.1 (15:08) 
- Epipelagic Nekton (01:58) 
- Staying Afloat in the Epipelagic -- Experiment 13.2 (13:30) 
- Living in the Epipelagic Zone (04:35) 
- Vertical Migration (01:30) 
- The Epipelagic Food Web (06:24) 

- Primary Productivity (01:40) 
  - Nutrients and Productivity (08:28) 
  - El Nino-Southern Oscillation (06:03) 
  - Summing Up (00:36) 
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## Module 14

- Introduction (03:05) 
  - The Mesopelagic (04:37) 
  - Mesopelagic Food Webs (06:16) 
  - Mesopelagic Body Design -- Experiment 14.1 and 14.2 (18:22) 
  - The Deep Sea (08:13) 
  - The Deep-Sea Floor (04:35) 
  - Hydrothermal Vents (03:44) 
  - Other Vent Communities (03:11) 
  - Deep-Sea Photosynthesis (03:01) 
  - Summing Up (01:03) 
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## Module 15

- Introduction (00:29) 
  - Food from the Sea (02:02) 
  - Food Species and Their Locations -- Experiment 15.1 (19:48) 
  - Managing Populations (13:31) 
  - Mariculture (05:28) 
  - Other Living Resources (01:41) 
  - Nonliving Ocean Resources (07:02) 
  - Summing Up (01:10) 
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## Module 16

- Introduction (02:08) 
- Ocean Habitat Damage (02:35) 
- Effects on Coral Reefs (02:28) 
- Pollution (01:42) 
- Sewage (04:28) 
- Fertilizers (02:14) 
- Oil (05:48) 
- Synthetic Pollutants (01:17) 
- DDT -- Experiment 16.1 (16:51) 
- Other Toxic Chemicals (02:23) 
- Metals and Other Toxic Materials (03:41) 
- Trash and Other Debris (00:47) 

Our Responsibility (03:02) 

In Summary (03:07) 