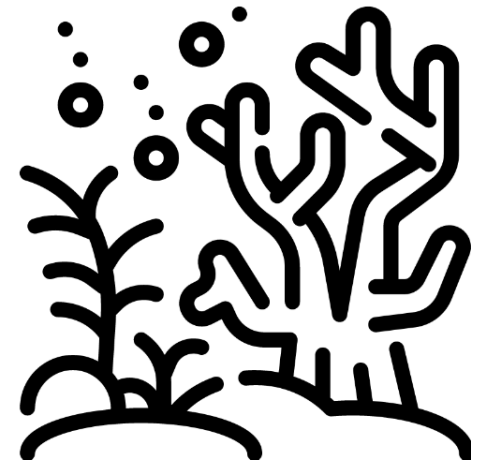
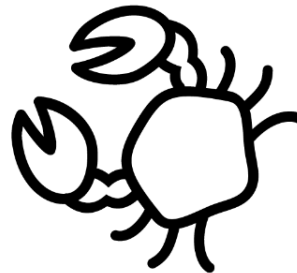
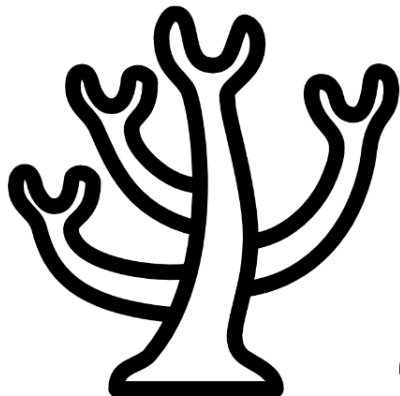


Ocean Adventure



Diving Deep... Deep... Deep Down into OCEANS!

What do you already know about oceans?

What are you curious to explore?

What is something you find cool about oceans?

Is there anything you find scary?

Are there any ocean animals that you like?

Which ocean do you live the closest to?

An Ocean of Topics

Here's a list of starter ideas - some are used within this pack

- Tides, currents, & gyres*
- Salinity*
- Water cycle*
- Storms & weather*
- Sailing*
- Exploration*
- Tectonic plates*
- Watersheds*
- Fishing/overfishing*
- Oceanography*
- Ocean zones*
- Water pressure*
- Submersibles*
- Scuba diving/snorkeling*
- Marine animals*
- Marine mammals*
- Extremophile species*
- Endangered species*
- Pollution*
- Garbage patches*
- Microplastics*
- Reef Systems*
- Keystone species*
- Rising ocean temperature*
- Plankton*
- Coral & coral bleaching*
- Flotation*
- Sea ice*
- Underwater volcanoes*
- Mariana trench*
- Marine careers*
- Historical people*
- Oil spills*
- Marine inventions*
- Cephalopods*
- Bays, harbors, seas, straits, etc*
- Whale songs*
- Aquariums*
- Seabirds*
- Shipwrecks*
- Pirates*
- Navigation*
- Marine plants*
- Sonar*
- Ocean migrations*
- Euryhaline fish*
- Largest animals*
- Tidal pools*
- Bioluminescence*
- Deep sea animal strategies*
- Baleen, siphons, beaks, or teeth?*
- Scales, dendrite, skin, or shell?*
- Mollusks*
- Waves*

An Oceanic Biography

What they loved about the ocean:

Their impact on the world included:

Important places:



The Oceans & Their Inhabitants

Label the oceans and show at least one creature who calls each home (map any migratory routes!)



Oceanic Careers

What are some professions that involve science & the ocean?

- _____
- _____
- _____
- _____
- _____
- _____

Are there other ocean careers that might be interesting?

- _____
- _____
- _____
- _____
- _____
- _____

Pick one of these to learn about and show on the other side!

An Ocean Keystone Species

The _____ affects

_____ and _____



which in turn affects



Scientific name:

Common name:

Status (Endangered?):

Found:

Diet:

Lifespan:

Impact:

Ocean Exploration

Topic:

Details:

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Oceanic Invention

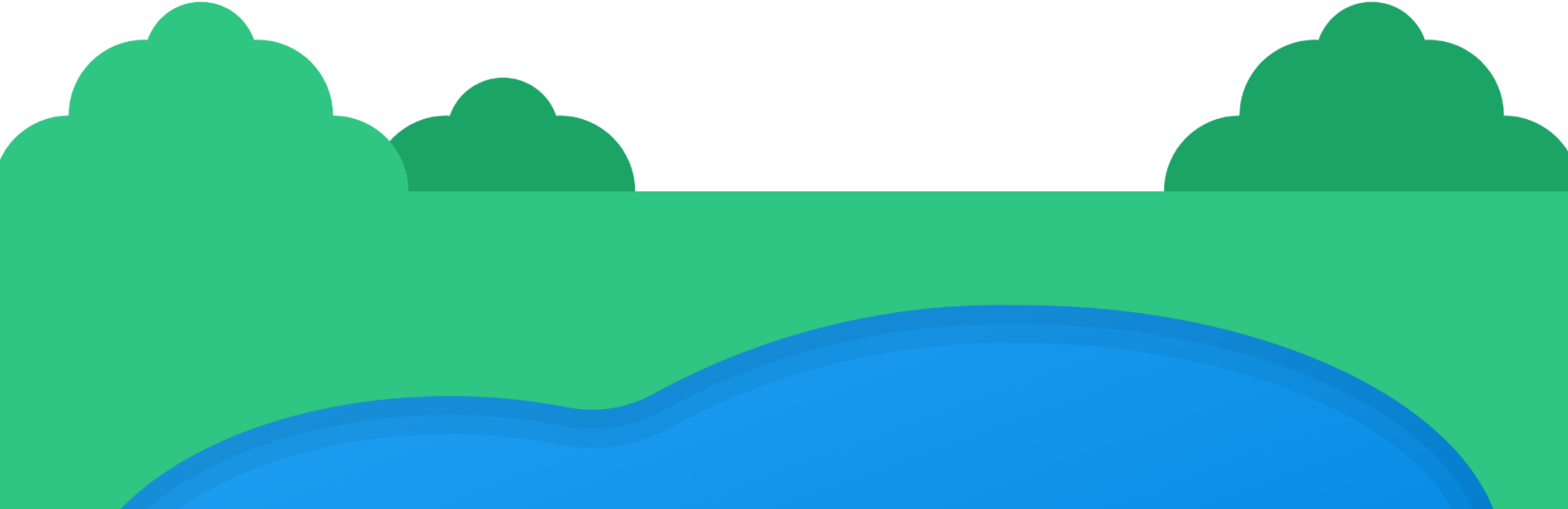
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Creator:

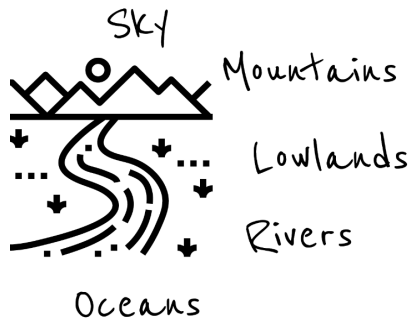
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Water Cycle



Where Does the Water Go?



A watershed is the path that water takes within a given area. When it rains, that water then begins a downhill journey to the ocean. All the pollution along the way - from the air to the mountains and down into the valleys, can be carried along with it to its final destination. What does your local watershed system look like? Which way does the rain that falls around you travel? What does it encounter along its way? Where does it wind up? Map your watershed below.

Project & Activity Ideas

- *Build a submersible - make a small model or create a full-size version out of cardboard boxes.*
- *Visit an aquarium, go to the beach, or go out on a boat.*
- *Use chalk, marking flags, sticks, or other materials to lay out life-size silhouettes of marine animals.*
- *Fill the bathtub - create waves, explore how things sink or float, add homemade icebergs, play with marine toys.*
- *Experiment with salinity: freeze fresh & salt water; boil salt water in a covered pot and test the water that condenses on the lid; let the water evaporate to leave the salt behind.*
- *Get artistic and create an as-yet-undiscovered undersea world with real or imagined creatures and landscapes.*
- *Try a recipe involving a marine theme or food source.*
- *Design a device to improve life in the ocean - maybe a trash picker-upper; a whale-safe boat; a coral resuscitator; what else?*
- *Pick up trash - at the beach, along a river, throughout your watershed.*
- *Go on a field trip to explore your watershed; visit a state park or Fish & Wildlife center, go for a hike, visit local rivers/dams.*

Reading Suggestions

Biographies:

- *Manfish: A Story of Jacques Cousteau*, by Jennifer Berne
- *Swimming with Sharks: The Daring Discoveries of Eugenie Clark*, by Heather Lang *and/or Shark Lady: The True Story of How Eugenie Clark Became the Ocean's Most Fearless Scientist*, by Jess Keating
- *Solving the Puzzle Under the Sea: Marie Tharp Maps the Ocean Floor*, by Robert Burleigh
- *Otis and Will Discover the Deep: the Record-Setting Dive of the Bathysphere*, by Barb Rosenstock
- *The Brilliant Deep: Rebuilding the World's Coral Reefs - The Story of Ken Nedimyer and the Coral Restoration Foundation*, by Kate Messner

Nonfiction:

- *Glow: Animals with Their Own Night Lights*, by W.H. Beck
- *Ocean! Waves for All*, by Stacy McAnulty
- *Into the Deep: An Exploration of Our Oceans*, by Wolfgang Dreyer
- *A Journey Under the Sea*, by Craig Foster & Ross Frylinck
- *Far from Shore: Chronicles of an Open Ocean Voyage*, by Sophie Webb
- *Ocean Sunlight: How Tiny Plants Feed the Seas*, by Holly Bang & Penny Chisholm
- *Exploring the Deep, Dark Sea*, by Gail Gibbons
- *Following the Coast*, by Jim Arnosky
- *Trapped!*, by Robert Burleigh
- *Marine Biologists*, by Ruth Owen
- *Explore Earth's Five Oceans*, by Bobbie Kalman
- *Washed Ashore: Making Art from Ocean Plastic*, by Kelly Crull

- *The Blue Whale*, by Jenni Desmond
- *Scuba Diving*, by Michael Teitelbaum
- *Curious Critters: Marine*, by David FitzSimmons
- *W is for Waves: An Ocean Alphabet*, by Marie & Roland Smith
- *Inky the Octopus: The Official Story of One Brave Octopus' Daring Escape (Includes Marine Biology Facts for Fun Early Learning!)*, by Erin Guendelsberger
- *I Am the Shark*, by Joan Holub
- *What If Sharks Disappeared*, by Lily Williams
- *Orca Rescue!: The True Story of an Orphaned Orca Named Springer*, by Donna Sandstrom

Fiction (Picture Books):

- *Edison: The Mystery of the Missing Mouse Treasure*, by Torben Kuhlmann
- *Beyond the Pond*, by Joseph Kuefler
- *Ice Boy*, by David Ezra Stein
- *Driftwood Days*, by William Miniver
- *Crab Cake: Turning the Tide Together*, by Andrea Tsurumi
- *If You Want to See a Whale*, by Julie Fogliano
- *The Ocean Calls: A Haenyeo Mermaid Story*, by Tina Cho
- *The Rhythm of the Rain*, by Grahame Baker-Smith
- *Turtle in the Sea; Slow Down for Manatees; both by Jim Arnosky*

Fiction (Chapter Books & Graphic Novels):

- *Ellie's Strand*, by Judith Li
- *Magic Tree House: Dolphins at Daybreak*, Mary Pope Osborne
- *Surviving the Wild: Sunny the Shark*, by Remy Lai

Ocean Scrapbook

Collect your favorite facts, remember your favorite activity, & celebrate what you love most about the ocean!

★		
★		
★		
★		
★		

Name:



Extraschooling

EXPLORE - LEARN - LAUGH - GROW - REPEAT

Date:
