

Online Resources

- New England Aquarium Resources
 - <https://www.neaq.org/visit/at-home-events-and-activities/>
 - Each day at 11:00 a.m., content will be posted on the Aquarium's social media platforms that includes live videos with educators, a behind-the-scenes look at animal care, and fun activities for children. Online visitors will also find a special webpage on neaq.org to take a "virtual visit" to the Aquarium, featuring video, at-home projects, and other educational resources. This page will be updated regularly with fresh material.
- PADI Virtual Dives
 - https://blog.padi.com/2014/11/16/virtual-dive-with-these-google-underwater-street-view-locations/?fbclid=IwAR0_YnuhITsM6ZhQw_brnCwvVJZ41OYS5cS02Fs2I5YJ06DvENjL17R4F_s
- Project Wild Thing
 - <https://www.thewildnetwork.com/inspiration/project-wild-thing>
- Skype a Scientist
 - <https://www.skypeascientist.com/>
- FSNatureLIVE programs about various aspects of nature (eg: bats, butterflies, climate change)
 - https://fsnaturelive.org/?fbclid=IwAR13AHzP9bKEfBNcPMvcgmiOONuQJZtIVUiL_ojexJphrhkmBEVKGKDF7cG0
- Cincinnati Zoo is doing a FacebookLIVE meeting an animal event every day at 3pm EST
 - https://www.facebook.com/cincinnati_zoo/
- 33 National Park Virtual Tours
 - https://totallythebomb.com/heres-33-national-park-tours-you-can-take-virtually-from-the-comfort-of-your-home?fbclid=IwAR0Ce8uPt0sbkQq7nEEG3g9qY_GuXyBE_LU8KeT3GKyV1dkd6bBFUY0NRyDA
- Smithsonian Museum Virtual Tours
 - <https://www.si.edu/kids>
- Virtual Learning on various topics offered by Scholastic Learn at Home
 - <https://classroommagazines.scholastic.com/support/learnathome.html>
- San Diego Live Zoo Cam
 - <https://zoo.sandiegozoo.org/live-cams>
- SciStarter - join a citizen science project!
 - https://scistarter.org/?origin=american-spring&utm_campaign=american-spring-2019



- Resources for lessons on natural world
 - <https://www.neefusa.org/greening-stem/greening-stem-educator-resources>
- Ocean Protection Advocacy Kids - free daily webinars starting March 23rd
 - <https://opakedu.org/webinars>
- Virtual Field Trips from Alaska SeaLife Center
 - https://www.alaskasealife.org/virtual_field_trips
- Science Learning at Home & Outside
 - <https://www.akcoastalstudies.org/education-programs/education-resources/160-uncategorised/171-at-home-learning.html#>
- NOAA Virtual Learning Resources
 - <https://www.noaa.gov/education/stories/staying-in-keep-learning-with-science-activities-kids-and-families-can-do-at-home?fbclid=IwAR2ACZuKomKW7A0ep5OvFKzsaV2yOEjyG5L3rf78KgfxGtGgJtdl-Z8ZerY>
- World Ocean Observatory Distance Learning Resources
 - <http://www.worldoceanobservatory.org/distance-learning-resources-covid19>
- Now is the best time to catch up on all the amazing resources to virtually explore Papahānaumokuākea in the remote Northwestern Hawaiian Islands. Here are a few:
 - Papahānaumokuākea Website <https://www.papahanaumokuakea.gov/>
 - Papahānaumokuākea Natural and Cultural Features https://www.papahanaumokuakea.gov/monument_features/
 - Papahānaumokuākea Maritime Heritage www.papahanaumokuakea.gov/maritime/
 - Visit Papahānaumokuākea via Google Streetview https://www.papahanaumokuakea.gov/education/virtual_visits.html
 - Office of Hawaiian Affairs: PMNM Videos and Cultural Access Briefing <https://www.oha.org/papahanaumokuakea/>
 - USFWS Midway Atoll NWR https://www.fws.gov/refuge/Midway_Atoll/
 - Papahānaumokuākea Virtual Reality by Jon Brack
 - <https://www.youtube.com/watch?v=JCEJGcgrsoE>
 - <https://www.youtube.com/watch?v=TA2MLHxW-cE>
 - Patrick Ching's Sacred Places Need Our Kay-yah!
 - Papahānaumokuākea Song and coloring book project <https://papahanaumokuakeasong.com/>
 - PMNM Flickr Site (images from PMNM) <https://www.flickr.com/photos/papahanaumokuakea/albums/with/72157651828054835>



- NOAA Okeanos Explorer Missions
 - 2016 Hohonu Moana: Exploring Deep Waters off Hawai'i (February - March) From February 25 to March 18, scientists will continue 2015 Hohonu Moana expedition efforts to explore deep-water habitats in and around Papahānaumokuākea Marine National Monument. The expedition will include work on seamounts in the Mid-Pacific Mountains while en route to port in Kwajalein. Click here to learn more: <https://oceanexplorer.noaa.gov/okeanos/explorations/ex1603/welcome.html>
 - Exploring the Sunken Heritage of Midway Atoll (May 2017) From May 2 - May 16, scientists will explore sunken aircraft associated with the Battle of Midway, adding an important maritime heritage component to our understanding of the broader history of World War II in the Pacific. This year is the 75th anniversary of the battle, and this project aims to raise awareness and honor the legacy of the brave men who helped to turn the tide in the Pacific during the course of the Battle of Midway. Click here to learn more: <https://oceanexplorer.noaa.gov/explorations/17midway/welcome.html>
 - NOAA Okeanos Explorer Expeditions by Location <https://oceanexplorer.noaa.gov/explorations/location/explorations-by-location.html>
- Schmidt Ocean Institute Expeditions
 - Leg 1: Mapping Papahānaumokuākea <https://schmidtocean.org/cruise/leg-one-papahanaumokuakea-monument/>
 - Leg 2: Mapping Papahānaumokuākea <https://schmidtocean.org/cruise/leg-two-papahanaumokuakea-monument/>
 - Necker Ridge: Bridge or Barrier <https://schmidtocean.org/cruise/necker-ridge-bridge-or-barrier/>
 - R/V Nautilus <https://nautiluslive.org/cruise/na101>
- PMNM Education Resources <https://www.papahanaumokuakea.gov/education/>
 - VIDEO AND MOVIES
 - Voyage to Kure 1&2
 - <https://www.youtube.com/watch?v=liT7kePNKSg>
 - https://www.youtube.com/watch?v=W9hlif_mMh4
 - More Videos on YouTube https://www.youtube.com/results?search_query=papahanaumokuakea
 - ONMS Earth is Blue Videos <https://sanctuaries.noaa.gov/earthisblue/videos.html#>
 - Talks at Hanauma Bay - many about PMNM <https://www.youtube.com/channel/UCi74IR7v60pZy0Qzb4UF9wQ>



- Dr. Kekuewa Kikiloi - Bishop Museum 5/7/13. The Archaeology of Nihoa and Mokumanamana <https://www.youtube.com/watch?v=hSczPyL1qDk>
- Dr. Randy Kosaki - Maui Ocean Center, Coral Reef Research in PMNM <https://www.youtube.com/watch?v=D4xHQrmMt0w&t=1042s>
- Hawaiian Islands humpback whale national marine sanctuary
 - <https://hawaiihumpbackwhale.noaa.gov/>
- State of Hawaii DLNR
 - <https://dlnr.hawaii.gov/>
- National Marine Sanctuary of American Samoa
 - <https://americansamoa.noaa.gov/>
- National Marine Sanctuaries Education
 - <https://sanctuaries.noaa.gov/learn.html>
- National Estuarine Research Reserve System Estuary Education
 - <https://coast.noaa.gov/estuaries/curriculum/index.html>
- NOAA Office of Ocean Exploration and Research Education
 - <https://oceanexplorer.noaa.gov/edu/welcome.html>
- NOAA's Educational Resources Collections
 - <https://www.noaa.gov/education/resource-collections>
- Tutorial for Sea Level Rise Viewer: Marsh Migration - exploration of digital sea level rise tool
 - <https://coast.noaa.gov/digitalcoast/training/marshmigration.html>
- The Wondrous Workings of Planet Earth Coloring pages by Rachel Ignatofsky
 - <https://www.rachelignatofskydesign.com/free-downloads>
- The Kennedy Center - Lunch Doodles with Mo Willems - Interactive
 - <https://www.kennedy-center.org/education/mo-willems/>
- Virtual Field Trips (Google Doc) - Zoo, Yellowstone, Mars, animals, farm, space, Louvre, more
 - https://docs.google.com/document/d/1SvldgTx9djKO6SjyvPDsoGIkgE3iExmi3qh2KRRku_w/mobilebasic
- WeatherSTEM - webinar, game, etc. science curriculum
 - <https://www.weatherstem.com/learn>
- Scholastic.com "Learn from Home"
 - <https://classroommagazines.scholastic.com/support/learnathome.html>
- Scholastic.com "Teachables"
 - <https://teachables.scholastic.com/teachables/tools/leveled-learning-collections.html>



- What's Causing Sea-Level Rise? Land Ice Vs. Sea Ice by NASA JPL - activity with household items
 - <https://www.jpl.nasa.gov/edu/teach/activity/whats-causing-sea-level-rise-land-ice-vs-sea-ice/>
- Thermal Expansion Model by NASA JPL - activity with household items
 - <https://www.jpl.nasa.gov/edu/teach/activity/thermal-expansion-model/>
- Smithsonian Institution
 - <https://www.si.edu/learn-explore>
- American Museum of Natural History
 - <https://www.facebook.com/naturalhistory/>
- Reef Relief is offering scheduled lessons on Facebook/Youtube
 - https://www.reefrelief.org/2020/03/lesson-1-ecosystems-and-food-chains/?fbclid=IwAR2yE_GhgOhgCZxLueQd8PoZnwntKYJsdHnB8w24VBunYJPKvo9OS9355IE
- ECOGIG Webinars
 - <https://www.ecogig.org/news-item?type=N&id=204>
- Interactive Documentary on Marine Environment in Australia
 - <http://museum.wa.gov.au/btw/>
- Interactive Website on Deep Sea - super cool!
 - <https://neal.fun/deep-sea/>
- Documentaries on Water around the world
 - <https://www.aljazeera.com/programmes/specialseries/2019/03/world-water-day-watch-documentaries-190303100950774.html>



Resources for Outdoor Activities

- Nature Journaling
 - <https://www.howwemontessori.com/how-we-montessori/2018/05/nature-journal.html>
- Wildtime for Schools - resource of various outdoor activities for kids of varying ages
 - <https://wildtimelearning.com/>
- Marvelous, Mushy, Mud Activity
 - <https://www.massaudubon.org/get-outdoors/young-explorers/activity-sheets/marvelous-mushy-mud-activity-page>
- Spring Bingo!
 - https://www.massaudubon.org/content/download/2743/31930/file/spring_bingo_color.pdf
- City Nature Challenge from iNaturalist
 - <https://citynaturechallenge.org/>
- Phenology!
 - https://www.usanpn.org/nn/education/activitybook?fbclid=IwAR0mLmM9zQpF5I2fYqYKJack5QTcMO1FBecJI6p2xqBkpwTQIz-HXqh_CeY
- Project Learning Tree activities for families outside
 - <https://www.plt.org/activities-for-families/>
- The Kindness Rock Project
 - <https://www.thekindnessrocksproject.com/>

Resources for Student Research Projects

- [National Marine Sanctuaries](#)
- [Ocean Animal Encyclopedia](#)

