



Unit 6: Ocean Lovers (Careers)

Reef Relief Email: reefrelief@gmail.com

Reef Relief Phone Number: 305-294-3100

Course Description: This unit was designed to supplement existing science coursework. Students will learn about different marine science careers and will learn from many experts about their career paths.

Course Objective:

1. Students will learn the various careers associated with marine conservation.
2. Students will understand the importance of each career path.
3. To inspire students to identify how they can use their passions to help with marine conservation.

Attendance: Students are able to complete this at their own pace. There are no deadlines for materials, and it is up to the student and parent/teacher to keep said student on their desired pace.

Internet Etiquette:

Reef Relief staff has enabled commenting on the materials. The comment sections shall be used to ask legitimate questions or voice formatting/ technological issues. Should there be any concern about this please contact us.

Materials:

All course materials and worksheets are provided in an online PDF format. If your student does not have access to a printer, feel free to write down your answers on a separate piece of paper. If needed, Reef Relief can also mail you supplemental materials.

Technical Difficulties:

Please contact us via email or phone to let us know about any technical difficulties, we will be more than happy to assist!

Course Work:

Reef Relief has provided many different videos and activities for the students. Students are not required to complete all of the materials in this unit, it is ultimately up to the student, parent or

teacher. Educators will be adding new coursework periodically. When that happens, you will receive an email notification.

Skill Level:

Many activities are labeled Beginner, Medium, or Advanced and it is up to the adult to decide what they would like their student to complete. We recommend the following to evaluate:

- Beginner: Someone new to marine science or is between the ages of 5-8.
- Medium: Someone who has received a moderate amount of science education or between the ages of 9-11.
- Advanced: Someone who is comfortable with more in-depth science topics, mature topics and verbiage, or between the ages of 12-17.

Grading:

Reef Relief will not be implementing any grading. Parents and teachers may make the personal decision to grade their student's work. There will be a section labeled answer keys that can be used to check your student's work.

Sharing of material:

Please do not share classroom materials with others. This includes but is not limited to the class password, the class link, worksheets, video, etc.

Office Hours:

Reef Relief is open Monday- Friday from 10:00 AM until 4:00PM EST. Outside events may change these hours however we will do our best to respond as promptly as possible.

Course Schedule:

The following is Reef Reliefs recommended order to participate.

UNIT 6

Pre-Questionnaire: Instead of quizzing, students will fill out this document identifying their passions and current/future goals. Students should fill this out BEFORE reviewing the rest of the content. Choose the questionnaire best suited to your experience level.

Introduction:

- Lesson 1: Introduction to Ocean Careers
 - An introduction to Unit 6 and what you can expect to learn in it.
- Worksheet: Job Match (Medium)
 - Identify the job description with the job title. Check your work with the answer sheet.
- Resource: Ocean Careers

- This booklet has interviews with over 20 marine science professionals and counting! This resource is a very accessible way to learn about the many career options that have to do with the ocean.

Hobbyist:

- Lesson 2: Hobbyist
 - Do you know what a hobby is? Do you have a hobby? Let's figure out how we can turn our hobbies into a career
- Expert Interview: Doris Szabo, 4Ocean
 - Doris works for the business 4Ocean, a company that sells ethical clothing and accessories and in return, cleans the ocean of marine debris. Learn more about the company and her role.
- Expert Interview: Jaclyn & Yasmin, Fin Pin Shop
 - These two ocean lovers met at a shark convention and since then have created a successful small business! They've turned their love for the ocean, art, and sense of humor into products that help promote ocean conservation.
- Expert Interview: Jessica Connell, Photographer and Teacher
 - Jessica uses her hobby of photography to help herself make an income while she teaches science at her local middle school.
- Expert Interview: Dr. Patrick Rynne, CEO Waterlust
 - From getting his PhD in marine physics, Patrick has now turned to ethical fashion as a way to spread ocean conservation. But the products his business makes are more than just clothing, they help provide important conservation messages and help initiate conversations about our marine life.
- Worksheet: Hobby Matching (Beginner)
 - Write the correct hobby under the picture.
- Worksheet: Hobby Careers (Medium)
 - For the hobbies listed, write the different careers you could have that would allow you to continue enjoying that hobby. Bonus points if they are marine science related.
- Worksheet: Crossword Puzzle (Advanced)
 - Each hint describes a marine science occupation. You must figure out which hobby it would apply to! (hint: these hobbies were taught in Lesson 2)
- Presenter Notes: Hobbyist
 - A resource to follow along with the lesson video.

Eco-Tourism:

- Lesson 3: Introduction to Eco Tourism
 - An introduction to the principles of EcoTourism
- Lesson Notes: Eco Tourism
 - Fill this out as you follow along with the lesson video.
- Worksheet: My Ecotour Business (Easy)
 - Fill in the questions below to create your own ecotour business

- Interview: Brady Stoneseifer and Billy Litmer, Honest Eco Tours
 - Listen in to an interview with the owner and head captain of Honest Eco
- Interview: Kristina Pendleton, Key West Aquarium
 - Listen in to an interview with the education manager at the Key West Aquarium
- Presenter Notes: Eco tourism
 - A resource to follow along with the lesson video

Research Scientists:

- Lesson 4: Research Scientists
 - Follow along with this video to learn the difference between a researcher and a scientist and how you can be a scientist at any age
- Expert Interview: Carlee Jackson, shark scientist
 - Learn about shark research and co-founding a nonprofit as well as balancing graduate school
- Expert Interview: Rose Santana, aquatic toxicologist
 - Discover what it is like as an aquatic toxicologist and learn some tips for applying different skill sets to research
- Expert Interview: Kelli O'Donnell, NOAA fish biologist
 - Join us as we interview a fish biologist from NOAA and learn the importance of networking
- Expert Interview: Ian Silver-Gorges
 - Graduate student at Florida State University, learn about the work he does with sea turtles and how he got to this point.
- Expert Interview: Michelle Dobler
 - Michelle helps save corals from Stony Coral Tissue Loss Disease learn about how her lab is saving corals, and about how she got to this point in her career.
- Expert Interview: Dr. Ross Boucek
 - Research scientist from Bonefish and Tarpon Trust, Dr. Ross Boucek is tagging bony fish to help us better understand them.
- Expert Interview: Dr. Joaquin Rodrigo Garza Perez
 - Learn about being a coral researcher and how GIS (Geological Information System) is used for coral protection
 - To be released 1/13
- Worksheet: Name that "ology"
 - Match the "ology" with the topic you think it studies.
- Worksheet: Design Your Own Experiment (Medium)
 - Fill out the steps to the scientific process
- Presenter Notes: Research Scientists
 - Use this PowerPoint to follow along with the lesson video and learn what it means to be a scientist

Inventors & Technology:

- Lesson 5: Inventors & Technology

- We will be learning about people who have recognized a problem and invented a solution. Whether it is a new product, or how they use current technology to answer burning questions they may have.
- Expert Interview: Autumn Blum, Founder Stream 2 Sea
 - Autumn, a chemist, noticed a pollution problem happening to our coral reefs. Thus, she invented a solution to our every day skin care products to help make a difference.
- Expert Interview: Brian Guadagno, Founder Raw Elements USA
 - It started when he was an ocean lifeguard who noticed an issue happening to our environment. Learn about the products he has created to help protect your skin and also protect our environment. Available after 1/21/2021.
- Expert Interview: Bruce Jones, Triton Submarines
 - The CEO of Triton submarines. Available after 1/13/2021.
- Expert Interview: Colin Foord, co-founder Coral Morphologic
 - Coral Morphologic is the leading creator of innovative underwater media chronicling Earth's imperiled coral reefs. Available after 1/21/2021.
- Expert Interview: John Fields, CEO Cruz Foam
 - John Fields created a way to turn seafood waste into environmentally friendly packaging. This interview will be released after 1/14/21.
- Expert Interview: Michael Blades, Logistics Director of RPM Nautical Foundation
 - Michael Blades works for a marine archaeology foundation. Learned about what they do and the thousand year old artifacts they uncover and how technology plays a role.
- Expert Interview: Trevor Mendelow, CEO View Into the Blue
 - Trevor Mendelow invented an underwater camera with a self cleaning apparatus that can live stream to many personal electronics. Learn about how his work can help us further understand what happens below the surface.
- Movie: Mission to Inner Space
 - See how marine scientists are using technology to live in the very ecosystem they are studying!
- Additional Resource: Wildlife Livestreams
 - Visit the different links to see how technology helps us learn about different ecosystems. These links have recorded and live footage.
- Presenter notes: Inventors & Technology
 - A resource to help follow along with the lesson video.

Advocators:

- Lesson 6: Advocators
 - Learn about the broad field of advocators
- Expert Interview: Jemma DeLeon, Policy Advocate
 - Learn what is like being a policy advocate and why ocean policy is important for protecting our oceans and how you can get involved!
- Expert Interview: JP Brooker, Ocean Conservancy Lawyer

- Listen to our interview with JP Brooker, a lawyer at the Ocean Conservancy, about protecting marine systems through law
- Expert Interview: Jim Ritterhoff, Force Blue Co-Founder (Advanced) WARNING
 - Learn what goes on behind the scenes to start a nonprofit and the passion needed to get started. Jim found a way to help military veterans and the coral reef. TW: The content of this video contains references to situations that could be triggering to some. Terms such as: PTSD, Addiction, drugs, suicide. Please consult an adult before watching this interview.
- Expert Interview: Haley Burleson, Mote Marine Laboratory Community Event Coordinator
 - Learn about being a community event coordinator and how research is used to educate the public
 - To be released (1/13)
- Worksheet: Becoming an Advocate
 - How would you advocate for our oceans?
- Presenter Notes: Advocators
 - A resource to help follow along with the lesson video

Government and Regulation:

- Lesson 7: Government and Regulation
 - Follow along to learn about all the marine science careers in our government
- Lesson Notes: Government and Regulation
 - Answer the questions as you follow along with the lesson video.
- Expert Interview: Curtis Hall, National Park Service Park Ranger
 - Listen in to our interview with Curtis Hall where we discuss his education and outreach ranger position at the Dry Tortugas National Park
- Worksheet: Fishing Regulations (Medium)
 - Practice being a Florida Fish and Wildlife Conservation Commission officer and match the fishing regulation to the marine animal species it correlates with.
- Presenter Notes: Government and Regulation
 - A resource to help follow along with the lesson video

Post- Questionnaires:

- This needs to be completed at the end of the unit. The goal is to see if learning about these different careers can allow students to see if they can turn their own hobbies into a marine science career.