

Wyoming Department of Education Required Virtual Education Course Syllabus

Park County School District # 1

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| Program Name | Park #1 Online | Content Area | Science |
| Course ID | OL5317 | Grade Level | 9th-12th |
| Course Name | FVS Marine Science (S2) | # of Credits | 0.5 |
| SCED Code | 03005G0.5022 | Curriculum Type | Science |

COURSE DESCRIPTION

Semester-long course purchased through Florida Virtual and used for our district students. Since the beginning of time, humans have relied on the ocean. But as our planet continues to change over time, human activity has impacted the environment. In the marine science course, students explore the watery depths of our own planet in order to understand just how vital the ocean is to our existence. Throughout the course, students meet marine animals and learn about their interactions with each other and their environment. Students tour the evolving seafloor, where they encounter trenches, volcanoes, and ridges. Along the way, students hang ten as they discover waves, currents, tides, and other physical interactions between the ocean and the land. Finally, students study the impacts of chemical processes on our blue planet and how they affect the water, the atmosphere, and our climate. With a focus on conservation, this course shows students that the ocean connects us all, across distance and even time. Hang on—it's going to be an amazing journey.

WYOMING CONTENT AND PERFORMANCE STANDARDS

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| STANDARD# | BENCHMARK (Standard/Indicator) Use the Standards and Benchmarks as Spreadsheets |
| WY.1 | Concepts and Processes |
| SCII.1 | Life Systems, Earth and Space Systems, Geochemical Cycles |
| WY.2 | Science as Inquiry |
| SCII.2 | Students use research scientific information and present findings through appropriate means, Students use inquiry to conduct scientific investigations |
| WY.3 | History and Nature of Science in Personal and Social Decisions |
| SCII.3 | Students examine the nature and history of science, Students examine how scientific information is used to make decisions |
| WY.RST | Reading Standards for Literacy in Science and Technical Subjects |
| | Key Ideas and Details, Craft and Structure, Integration of Knowledge and Ideas, Range of Reading and Level of Text Complexity |
| WY.WHST | Writing Standards for Literacy in Science and Technical Subjects |
| | Text Types and Purposes, Production and Distribution of Writing, Research to Build and Present Knowledge, Range of Writing |

SCOPE AND SEQUENCE

| UNIT OUTLINE | STANDARD# | OUTCOMES OBJECTIVES/STUDENT CENTERED GOALS |
|-------------------------------------|-------------------------------------|--|
| 04.01 Marine Biodiversity | SCII.1 SCII.2 RST WHST | What is marine biodiversity? |
| 04.03 Ecosystem Health | SCII.1 SCII.2 SCII.3 RST WHST | What is the health of the ecosystem? |
| 04.04 Marine Populations | SCII.1 SCII.2 SCII.3 RST WHST | What does the marine population look like? |
| 04.05 Adaptations | SCII.1 SCII.2 SCII.3 RST WHST | What adaptations are happening in the animals? |
| 04.06 Marine Habitats | SCII.1 SCII.2 SCII.3 RST WHST | What types of marine habitats are there? |
| 05.01 Marine Ecosystems | SCII.1 SCII.2 SCII.3 RST WHST | What are the different marine ecosystems? |
| 05.02 Food Webs and Energy Transfer | SCII.1 SCII.2 SCII.3 RST WHST | What are food webs and how does energy transfer? |

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| 05.03 Marine Relationships | SCII.1 SCII.3 WHST | SCII.2 RST | What are the different marine relationships? |
| 05.04 Human Impact on Marine Life | SCII.1 SCII.3 WHST | SCII.2 RST | What impact does marine life have on humans? |
| 05.06 Pollution | SCII.1 SCII.3 WHST | SCII.2 RST | What is pollution and how is it harmful? |
| 06.01 Marine Conservation | SCII.1 SCII.3 WHST | SCII.2 RST | What is marine conservation? |
| 06.03 Marine Resources | SCII.1 SCII.3 WHST | SCII.2 RST | What marine resources are out there? |
| 06.04 Future of an Ocean Planet | SCII.1 SCII.3 WHST | SCII.2 RST | What is the future of the ocean planet? |
| Segment Two Collaboration | SCII.1 RST | SCII.2 WHST | |