

Program Descriptions

The Catalina Experience™ at White's Landing

We want to work with you to create a program that will best fit you and your students' needs by allowing you to pick the classes you would like your students to participate in. Listed below you will see our classes split into different categories: activities, hikes and treks, labs, and evening activities.

All classes are education focused. There will be a short lecture period where instructors will cover background information, equipment and safety rules. Students will then be taken into the field where they will receive a hands on experience. We have created a log book/journal that will allow students to record their data and findings.

The objectives of each class are as follows:

DAY PROGRAMS

Activities

1. Snorkeling:

- ❑ How to snorkel
- ❑ Identification of different types of common fish found at White's Landing
- ❑ Basic fish physiology
- ❑ A description of different underwater habitats at White's Landing
- ❑ Students will participate in an underwater survey of the animals they encounter at White's while snorkeling. They will be given wax pencils and waterproof data sheets to note numbers, temperature, length of survey time, tide level, and the areas surveyed. At the end of class each groups data will be shared with everyone and students will become part of an on-going research project at White's Landing
- ❑ CA Standards:
 - 5th Grade:
 - Writing: 1.2, 1.2a, 1.2b, 1.2c
 - 6th Grade:
 - Focus on Earth Sciences: 5, 5a, 5b, 5c, 5d, 5e
 - 7th Grade:
 - Statistics, Data Analysis, and Probability: 1.0, 1.1, 1.2, 1.3
 - 9th-12th Grade:
 - Biology and Life Sciences: 6, 6a, 6b, 6c, 6d, 6e, 6f, 6g
 - Writing: 2.1, 2.1a, 2.1b, 2.1c, 2.1d, 2.1e

2. Kayaking

- ❑ How to kayak
- ❑ Identification of different marine birds
- ❑ Exposure to different feeding types in birds
- ❑ Nesting and it's importance
- ❑ Basic bird physiology
- ❑ Students will participate in a coastal survey of animals they encounter noting time, mapping the areas, and noting approximate age of said animals. They will stop at stations along their way and take note of different habitats. All data will be shared and recorded as a wrap up to the activity.

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- CA Standards:
 - 5th Grade:
 - Writing Strategies: 1.0
 - Organization and Focus: 1.1, 1.1a, 1.1b, 1.1c, 1.2, 1.2a, 1.2b, 1.2c
 - 9th-12th Grade:
 - Biology and Life Sciences: 6, 6a, 6b, 6c, 6d
 - Writing: 2.1 2.1a, 2.1b, 2.1c, 2.1d, 2.1e

3. Survival

- How to filter water
- What plants to use and which to stay away from
- How to build a shelter
- Learning specific knots
- How to discern direction

4. GPS Scavenger hunt

- Students learn how to navigate with a GPS unit
- They utilize teamwork to find hidden treasures

Hikes/ Treks

5. Ecology hike

- Island facts and how life got to the island
- Identify different plants and animals
- Show the interaction between plants and animals
- Different uses for plants
- This hike focuses on observation. Students will stop at different stations while on the trail to observe different plants, animals and micro-climates.
- CA Standards:
 - 5th Grade:
 - Investigation and Experimentation: 6, 6a
 - 6th Grade:
 - Focus on Earth Sciences: 5, 5a, 5b, 5c, 5d, 5e
 - Listening and Speaking: 2.5, 2.5a, 2.5b
 - 7th Grade:
 - Statistics, Data Analysis, and Probability: 1.0, 1.1, 1.2, 1.3
 - 9th-12th Grade:
 - Biology and Life Sciences: 6, 6a, 6b, 6c, 6d, 6e

6. Geology trek

- What are the different types of rocks
- What is the rock cycle?
- What are the different tests you can use to identify a rock or mineral?
- How was Catalina Island formed?
- Students will be armed with rock hammers, magnifying glasses and test cards to explore the different rocks on Catalina Island. They will be able to see evidence of it's formation and learn to identify the three different rock types.

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- CA Standards:
 - 6th Grade:
 - Earth Sciences: 1, 1a, 1b, 1c, 1d, 1e, 1f, 1g, 2, 2a, 2b, 2c, 2d
 - 7th Grade:
 - Focus on Life Science: 4, 4a, 4b, 4c, 4d, 4e, 4f, 4g
 - 9th- 12th Grade:

Labs

7. Intertidal

- What is an intertidal area?
- What causes the tides?
- Identify the different sections of the intertidal area
- Learn the hardship of living in this environment
- Identify common intertidal animals found at White's Landing
- Students will become part of an on going survey of an intertidal area by using permanent sampling circles. Each group will be given a circle and will be responsible for identifying and counting all animals in that area. All data will be shared with classmates and other schools as the season progresses.
- CA Standards
 - 5th Grade:
 - Statistics/ Data Analysis and Probability: 1.0, 1.1, 1.2, 1.3, 1.4
 - 6th Grade:
 - Focus on Earth Sciences: 5, 5c, 5d, 5e
 - 7th Grade:
 - Statistics/ Data Analysis and Probability: 1.0, 1.1, 1.2, 1.3
 - 9th- 12th Grade:
 - Biology and Life Sciences: 6, 6a, 6b, 6c, 6d

8. Plankton

- What is plankton?
- Why is it important?
- Identification of different types and species
- Using a microscope
- Learning to create scientific sketches
- Students will use a plankton net as a collection device to collect a sample from within the cove. This sample will be split and students will count how many plankton they have in the sample provided doing their best to count each species. They will note time, location of sample, and approximate depth.
- CA Standards:
 - 5th Grade:
 - Math: 1.0, 1.1, 1.2
 - Algebra and Functions: 1.0, 1.1
 - Statistics, Data Analysis, and Probability: 1.0, 1.1, 1.2, 1.3, 1.4, 1.5
 - 6th Grade:
 - Focus on Earth Sciences: 5, 5a, 5b, 5c, 5d, 5e, 6, 6a, 6b, 6c
 - Investigation and Experimentation: 7, 7a, 7b, 7c, 7d, 7e, 7f, 7g, 7h
 - Math: 2.0, 2.1, 2.2, 2.3,

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- 7th Grade:
 - Investigation and Experimentation: 7, 7a, 7b, 7c, 7d, 7e
 - Statistics, Data Analysis and Probability: 1.0, 1.1, 1.2, 1.3
- 9th-12th Grade:
 - Biology and Life Sciences: 6, 6a, 6b, 6c, 6d, 6e, 6f

9. Beach systems and sediment

- Why are beaches important?
- How will sediment size affect the beach?
- How to draw and glean information from a graph
- Use a balance and sieve to make measurements
- Students will make a profile of the beach at White's Landing. This will be part of an on-going research project to plot the beach activity over the year. Schools will be given complete data sets from all research done.
- CA Standards:
 - 5th Grade:
 - Investigation and Experimentation: 6, 6a, 6f, 6g, 6h, 6i (assessment)
 - Math: 1.0, 1.1, 1.2
 - Statistics/ Data Analysis and Probability: 1.0, 1.1, 1.2, 1.3, 1.4
 - 6th Grade:
 - Shaping the Earth's Surface: 2c
 - Math: 2.0, 2.1, 2.2, 2.3
 - 7th Grade:
 - Investigation and Experimentation: 7, 7a, 7d
 - 8th Grade:
 - Investigation and Experimentation: 9, 9a, 9b, 9c, 9d, 9e, 9f, 9g,
 - 9th- 12th Grade:
 - Waves: 4, 4a, 4b, 4c, 4d

10. Water Chemistry

- What is seawater made of?
- How does it support life?
- What effect do certain parameters have on it... salinity, temperature, density, dissolved oxygen?
- Use of a secchi disc
- Use of a nissen bottle
- Use of a sediment sampler
- Students will sample from a boat at 2-3 different sites in the cove. At each site they will record data noting time, location, depth, and weather.
- CA Standards:
 - 6th Grade:
 - Investigation and Experimentation: 7, 7a, 7b, 7c, 7d, 7e, 7f, 7g, 7h
 - 7th Grade:
 - Focus on Physical Sciences: 8, 8a, 8b, 8c, 8d
 - Investigation and Experimentation: 9, 9a, 9b, 9c, 9d, 9e, 9f, 9g
 - 9th-12th Grade:
 - Chemistry: 5, 5a, 5b, 5c, 5d, 5e, 5f, 6d

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EVENING PROGRAMS

11. Composting

- ❑ What is composting?
- ❑ Why is it important?
- ❑ How does it work?
- ❑ Hands on activity where students take part in our composting program at White's Landing.

12. Campfire

- ❑ Our instructors light the fire but group leaders are responsible for program. This is a time for teachers to be with their students.

13. Presentation/ Skit night

- ❑ Based on a theme of the week, students will be split into groups and are responsible for creating a skit or presentation that they will perform.
- ❑ CA Standards
 - 5th Grade:
 - Listening and Speaking: 1.0, 1.4, 1.6, 2.0, 2.1, 2.2, 2.2c
 - 6th Grade:
 - Listening and Speaking: 1.0, 1.4, 1.7, 2.0, 2.1, 2.1a, 2.1b, 2.1c
 - 7th Grade:
 - Listening and Speaking: 1.0, 1.4, 1.5, 1.6, 2.0, 2.1, 2.3
 - 8th Grade:
 - Listening and Speaking: 1.0, 1.3, 1.4, 1.5, 2.0
 - 9th-10th Grade:
 - Listening and Speaking: 1.0, 1.7, 2.0
 - 11th- 12th Grade:
 - Listening and Speaking: 1.0, 1.7, 1.8, 1.8a, 1.8b, 1.8c, 2.0

14. Astronomy

- ❑ Facts about our the universe and our solar system
- ❑ View slides in outdoor setting
- ❑ Learn to tell direction by the stars
- ❑ Astronomy vocabulary
- ❑ How to use a star chart
- ❑ How to use a telescope
- ❑ CA Standards:
 - 5th Grade:
 - Earth Sciences: 5, 5a, 5b, 5c
 - Investigation and Experimentation: 6, 6a, 6f, 6g, 6i (assessment)
 - 8th Grade:
 - Earth Sciences: 4, 4a, 4b, 4c, 4d, 4e
 - 9th- 12th Grade:
 - Earth Sciences: 1, 1a, 1b, 1c, 1d, 1e, 1f, 1g, 2, 2a, 2b

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15. Native Peoples of Catalina

- ❑ Who were they?
- ❑ What happened to them?
- ❑ What did they live in?
- ❑ What did they eat?
- ❑ What did they do for fun?
- ❑ What kinds of utensils/ tools did they use?
- ❑ What were some of their cultural activities (dances, music?)
- ❑ Students will participate in a few of the native cultural activities such as basket weaving, dancing, singing, tool making.
- ❑ CA Standards:
 - 5th Grade:
 - Historic and Cultural Context: 3.0, 3.2, 3.3
 - 6th Grade:
 - Diversity of Dance: 3.3
 - Chronological and Spatial Thinking: 1, 2, 3
 - Historical Interpretation: 1, 2, 3, 4, 5, 6
 - World History and Geography- Ancient Civilizations: 6.1, 6.1-1
 - 7th Grade:
 - Historical and Cultural Context- Dance: 3.0, 3.1, 3.2, 3.3
 - 8th Grade:
 - Historical and Cultural Context- Dance: 3.0, 3.1, 3.2, 3.3
 - Historical and Cultural Context- Music: 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6
 - Listening and Speaking: 2.1, 2.1a, 2.1b, 2.1c, 2.1d (assessment: 2.3a, 2.3b, 2.3c, 2.3d)
 - 9th-12th Grade:
 - Writing Applications (9th and 10th): 2.1, 2.1a, 2.1b, 2.1c, 2.1d, 2.1e
 - Writing Applications (11th and 12th): 2.4, 2.4a, 2.4b, 2.4c
 - Listening and Speaking (11th and 12th): 2.2, 2.2a, 2.2b, 2.2c, 2.2d
 - Chronological and Spatial Thinking: 1, 2, 3, 4
 - Historical Research, Evidence and point of view: 1, 2, 3, 4
 - Historical Interpretation: 1, 2, 3, 4, 5, 6

16. Fox eye Hike

- ❑ Night hike/ team building scavenger hunt

17. Movie on the Beach

- ❑ A relaxing evening where students can enjoy watching an age appropriate movie (chosen by teachers) in surround sound right on the beach.