

GRADES 3RD - 12TH
JOURNALING, MODELING, RESEARCH
CREATED FOR CABRILLO MARINE AQUARIUM
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ROCKY SHORE SPECIMEN JOURNAL

OPTION 1 : NATURALIST JOURNAL

- Choose one or more of the specimen cards from **Rocky Shore Specimen Photo Resource (PDF)**
- Draw and describe in as much detail as possible
- Draw 2 sketches (front and back) matching the two pictures provided for the specimen
- Note anything unusual or unique about the specimen
- Write down questions and ideas
- What animal do you think made this shell, or lived in it?
- If you have colored pencils use them to help create more accuracy in your drawing.

OPTION 2: NATURALIST JOURNAL AND MATCHING

- Follow the directions for Option 1
- Make sure participants do not write the animal name or card number on their journal, that information is for the organizer to assign and keep track of journal entries.
- You might be working in groups, or assigning different photos to different people. When assigning photos use the numbered list of photo descriptions to help keep track of who has what item, write the person's name next to the photo you assign them.
- When everyone has finished, create digital files of journals (photos can easily work).
- During a zoom or classroom meeting, or in person pull up the full **Specimen Photo Resource PDF**
- Hold up each journal entry, and scroll through the photos until students start to match that entry with a specimen. Ask students to give reasons why they matched that journal to the specimen photo.
- Ask students what about the journal entry was helpful in identifying the item
- The organizer will know who got assigned that specimen photo and can then ask that participant directly if the group is correct in matching the photo and journal entry.
- Encourage the participants with language that emphasizes accuracy and detail and not artistic talent, style, or craft, unless you are teaching a technical scientific illustration or art class.
- The important thing is to capture details, ask interesting questions, and to think critically about the item.



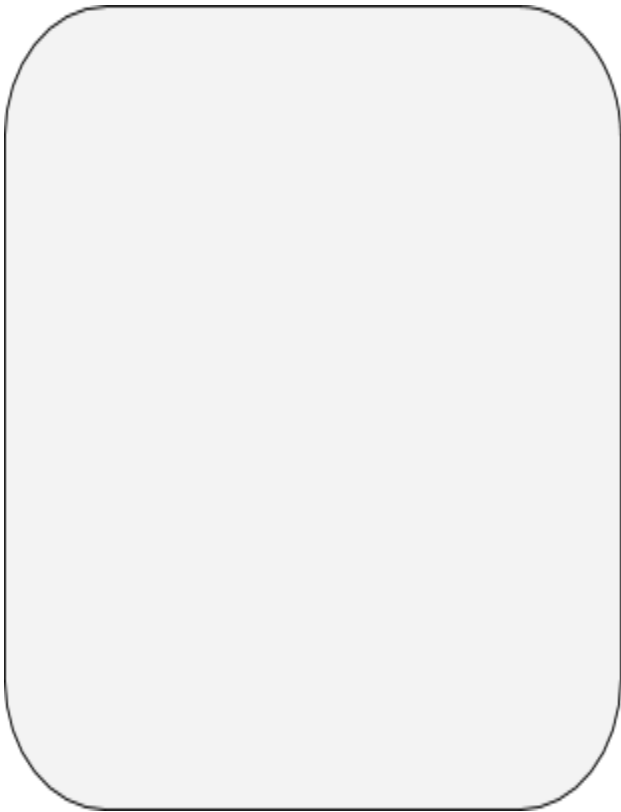
OPTION 3: NATURALIST JOURNAL AND SPECIES IDENTIFICATION

You might want to practice both Option 1 and 3 if you are working as an individual.
If working with a group, depending on how much time you have,
you might participate in all three options.

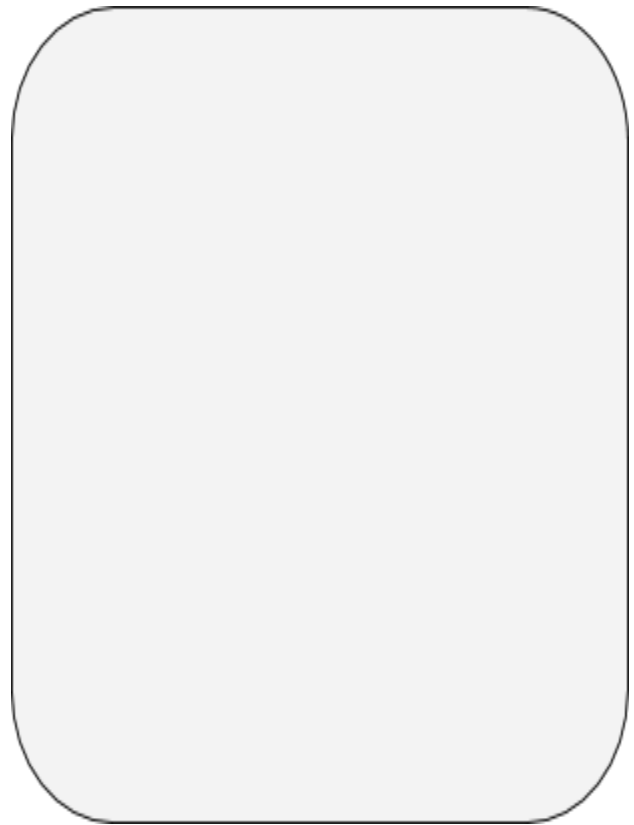
- Finish a journal entry for one specimen (see Worksheet on next page for Journal Template)
- After using that journal for any 'anonymous' or interactive activities it is time to identify your specimen.
- Common names of each specimen are included in the photo resources, but scientific names have not been included.
- Research and look up photos and descriptions of animals similar to yours (Note: all these specimen are from local Southern California waters).
- When you find a species that closely matches yours, make notes in your journal about WHY you think the species might be a good match to your original description, observations, and photos .
- Remember that not all photos online are labeled correctly. Common names can be used for multiple *species* of animals. Try to double check and use reputable websites.
- Where to start your online research: NOAA, CA Department of Fish and Wildlife, West Coast University or College websites, Cabrillo Marine Aquarium and other Aquarium websites may have information that will be helpful.

ROCKY SHORE SPECIMEN JOURNAL

TOP



BOTTOM



JOURNAL NOTES

WHAT DO YOU KNOW ABOUT THE ANIMAL THAT MADE OR LIVED IN THIS SHELL ?

WHAT ARE SOME CLUES ABOUT THIS SPECIMEN THAT COULD HELP NARROW DOWN YOUR SEARCH FOR A SCIENTIFIC SPECIES NAME ?

WHAT ELSE DO YOU KNOW ABOUT THIS ANIMAL? WHAT MIGHT IT EAT? WHAT DOES IT NEED TO SURVIVE?

WHAT DID YOU LEARN FROM THE SKETCH AND JOURNALING PROCESS?

DID YOU FIND A SCIENTIFIC NAME AND DESCRIPTION THAT MATCHES YOUR SPECIMEN? DESCRIBE SOME EVIDENCE THAT SUPPORTS YOUR REASONING.



WHAT OTHER QUESTIONS DID YOU HAVE WHILE EXAMINING THIS SPECIMEN?

WHAT ELSE DID YOU NOTICE?

IS THERE ANYTHING THAT YOU WONDERED AND DIDN'T FIND ANSWERS FOR?

USING EVIDENCE FROM YOUR JOURNAL AND RESEARCH, COME UP WITH A THEORY TO EXPLAIN AND ANSWER ONE OF YOUR QUESTIONS: