

# Science Story Adventures



## Tidepools

### Learning outcomes

- » Adaptations in physical structure or behavior may improve an organism's chance for survival. (Grade 3 - Life Sciences)
- » Students know examples of diverse life forms in different environments, such as oceans. (Grade 3 - Life Sciences)

*From: California's Science Content Standards*

### Books we read

*The Seaside Switch* by Kathleen Kudlinski  
*One Small Place by the Sea* by Barbara Brenner  
*Is This a House for Hermit Crab?* by Megan McDonald

### Activities we did

- » We examined specimens of different animals and plants found in tidepools.
- » We talked about how tidepool animals are adapted to living in a harsh environment.
- » We learned how sea stars eat.
- » We sang a tidepool version of the song "Down by the Bay":

Down by the bay,  
Back to my home,  
I dare not go.  
For if I do,  
My mother will say:  
Did you ever see a clam, eating some jam?  
Down by the bay.

*Other tidepool things the mother could say:*  
Did you ever see a shrimp, walk with a limp?  
Did you ever see some kelp, calling for help?  
Did you ever see a sea star, driving a car?

### Today's craft: Make a Scallop



### You will need:

- » Two small paper plates
- » Scallop template
- » Pencils
- » Crayons
- » Scissors
- » Scotch tape
- » Cotton balls
- » Elmer's glue

### Directions:

1. Trace the scallop shell template on the paper plates and cut them out.
2. Color the outside of the scallop shells.
3. Tape the scallop hinge on the inside.
5. Glue 4 or 5 cotton balls on the inside of one of the shells.

*Adapted from The Kids' Natural History Book by Judy Press*

# Want to find out more?

Here is a selection of further resources to explore in the Naturalist Center, in the public library or at home. Please ask if you can't find what you're looking for.

## Books

*In One Tidepool: Crabs, Snails and Salty Tails* by Anthony D. Fredericks. Nat. Ctr. Juv. QL122.2 .F74 2002

Meet the many inhabitants of a tidepool in this cumulative story. "Field Notes" at the end provide more information about some of unusual creatures you'll find there.

*Seashore* by Steve Parker. Nat. Ctr. Juv. QH95.7 .P37 2004

Seashore formations, crabs, mollusks, fish, underwater gardens--learn about all of these and more in this stunning book that is part of the "Eyewitness" series.

*The Seaside Naturalist: A Guide to Study at the Seashore* by Deborah A. Coulombe. Nat. Ctr. QH95.7 .C68 1992

A detailed field guide to life found at the beach for the whole family.

*Squirts and Snails and Skinny Green Tails: Seashore Nature Activities for Kids* by Diane Swanson. Nat. Ctr. Juv. QH95.7 .S93 1993

There's a lot to discover and examine at the seashore and this book gives you everything you need to know to respectfully do just that.

*Tide Pool* by Christiane Gunzi. Nat. Ctr. Juv. QH541.5 .S35 G86 1998

Large, bright photos bring tidepool animals and plants up-close, while the informative text fills you in on all the details about them.

## Media

*Amazing Seashore Animals* (VHS). Nat. Ctr. Media QL122.2 .A42 1997

Henry the Lizard thought he was going to have a peaceful afternoon at the beach, but soon learns that it is teeming with unusual animals from shrimp that become invisible to spiky sea urchins.

*Life at the Edge of the Sea* (VHS). Nat. Ctr. QH541.5 .S35 L54 1998

Travel to the coast of British Columbia to explore how tidepool animals adapt to the changing tides. Originally broadcast on the program *Nature*.

## Websites

Fitzgerald Marine Reserve Tidepools

Everything you need to know to plan a trip to the reserve's tidepools. Includes information on tidepool animals and why we have different types of tides.

<http://www.sfgate.com/getoutside/1996/jun/fitz.html>

A Guide to the Side of the Sea: A Teacher's Guide for Field Trips to Rocky Intertidal Areas

Lessons plans and field trip tips for a visit to a tidepool.  
[http://www.parks.ca.gov/?page\\_id=24075](http://www.parks.ca.gov/?page_id=24075)

Marine Science: Tidepools in California

Extensive information and amazing photos of wildlife found along the California coast.

<http://www.marinebio.net/marinescience/03ecology/tpindex.htm>



Scallop Template