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# INTRODUCTION

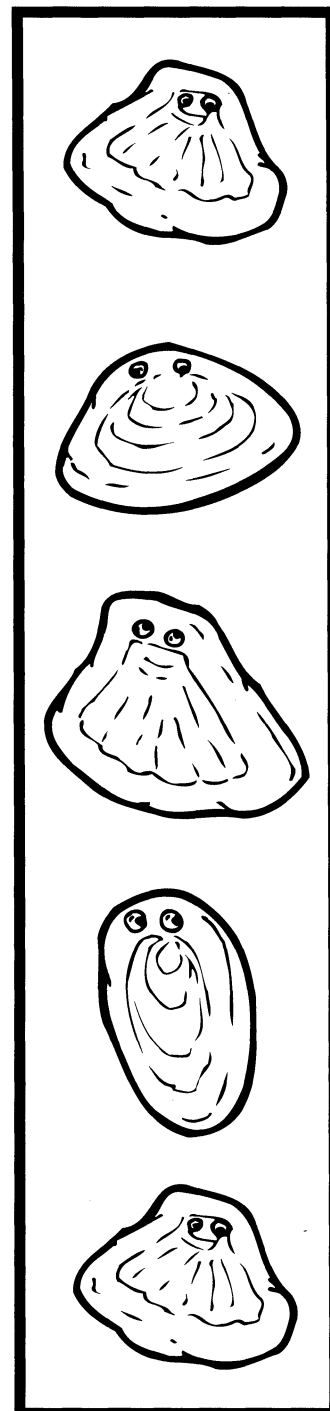
*Rub-a-Dub-Dub* is composed of six chapters, each dedicated to a specific category of ocean life or landscape. This book is intended to help young children develop a hands-on understanding of science, while developing language skills. Children will learn to relate to the ocean environment in a personal way, through literature, observations, art, games, and songs.

The **Let's Read** section of each chapter features a popular children's book, such as *The Rainbow Fish* by Mark Pfister, and is accompanied by a detailed summary. **Let's Talk** helps children link the featured book with familiar feelings, thoughts, or ideas in their own lives. For example, in the fish chapter, the "Let's Talk" discussion focuses on sharing, an important theme in *The Rainbow Fish*. This page also includes a pattern that can be photocopied and used as a bookmark.

**Let's Learn** is filled with facts about each topic, for example, the giant squid's eyes are the size of car headlights. Choose facts that you think will interest your children. Read a fact a day during the unit.

The **Let's Create** activities in each chapter allow children to use their imaginations. They will make imaginative crafts, draw pictures, and so on.

Children make a hands-on science connection in the **Let's Find Out** activities. These projects focus on exploration, leading children through moments of discovery as they *find out* why you can "hear the ocean" in a seashell or why a squid releases ink.

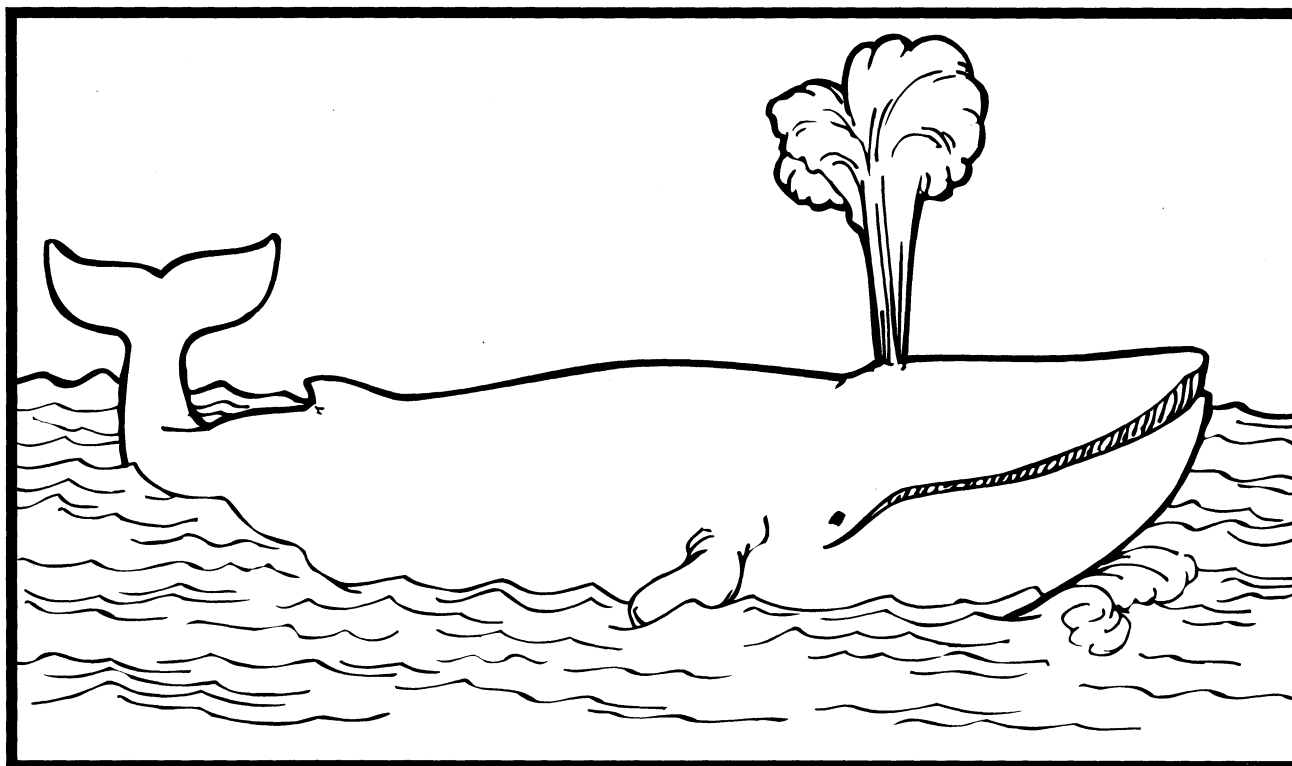


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**Let's Play** provides patterns for card or board games. A chant or a new song set to a familiar tune is featured in the **Let's Sing** section. Children can learn the new lyrics and perform them for parents or each other. Mother Goose rhymes are also included in this section.

Informative **Pattern Pages** complete each chapter. These patterns can be duplicated and used for bulletin board displays, reduced for cubby labels and name tags, or used for desk labelling. (Children can colour the patterns using crayons or textas.)

At the end of the book, you'll find a **Storybook Resources** section filled with additional fiction picture- and storybooks, plus an **Other Resources** section suggesting resources that are available on this theme.



# ALL ABOUT OCEANS

## The Beach:

The sandy shore has been built up by the waves. The beach may be covered with lots of shells since it was once part of the sea floor.

## Cliffs and Caves:

These show that the shore is being worn away. Eventually, the waves will undercut the cliff and it will fall into the ocean and be carried out to sea!

## Fossils:

Fossils are mostly found in sedimentary rocks. They are the prints left behind by the bodies of animals and plants that were trapped in between the layers of the rock as it was forming. Limestone contains many fossils, as does coal.

## Marine Life:

The marine environment of the ocean floor is divided into two major realms: the benthic (ocean floor) and the pelagic (all waters above the benthic).

## Tidal Waves:

The most powerful waves of the sea are tsunamis, or seismic sea waves. They are caused by earthquakes and can reach up to 30 metres!

## Tidal Pools:

Tidal pool plant life, which ranges from tiny algae to large seaweeds, captures light from the sun and obtains food from sea water. The plants grow to become the food for plant-eating animals in the pool.

