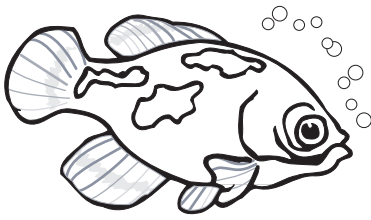


## Research It!



Listed below are the names of the four ocean zones. Research to find out the location of each zone. Also research to find out if any plants or animals live in each zone. Take notes! You will create the flip book described below to display your findings.

- The sunlight zone (epipelagic zone)
- The twilight zone (mesopelagic zone)
- The bathypelagic zone
- The hadal zone (abyssopelagic zone)

## Make It!

**Materials:** markers, crayons, scissors, one sheet of construction paper in each of the following colors and dimensions:

- white—12" x 5"
- light blue—12" x 7"
- dark blue—12" x 9"
- black—12" x 11"
- brown—12" x 12"

### Directions:

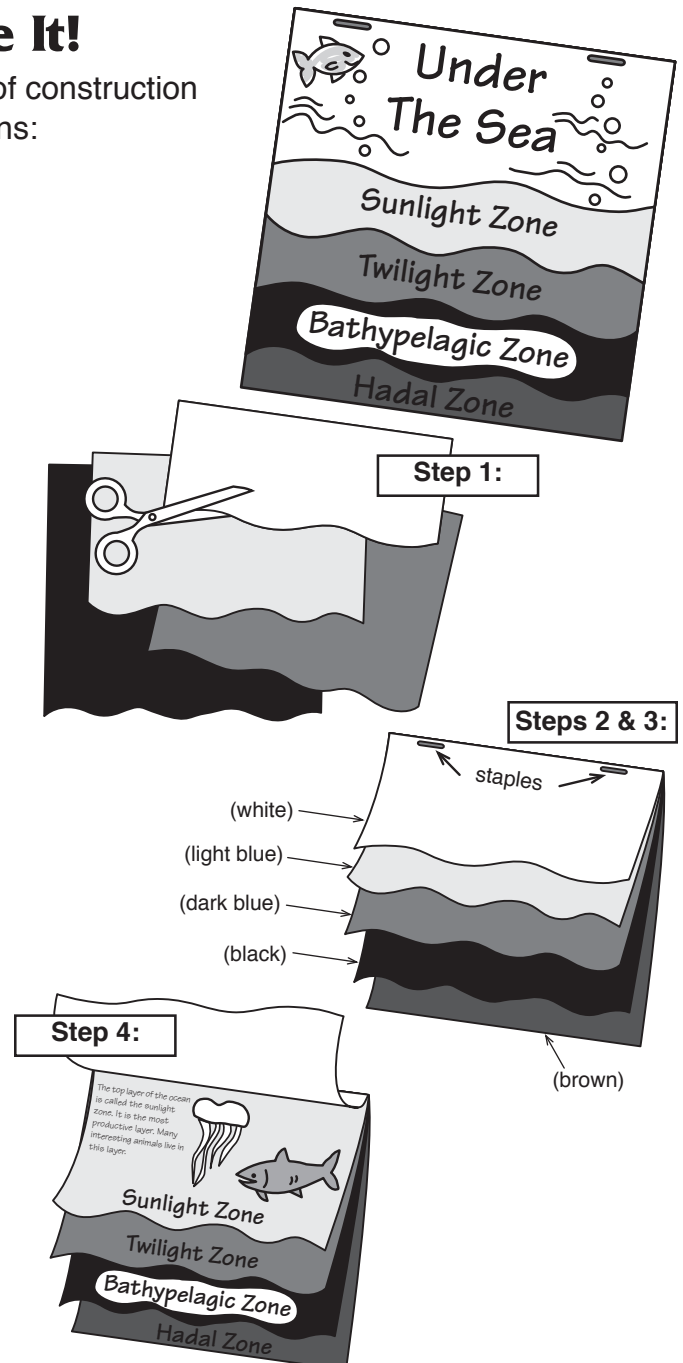
**Step 1:** Carefully trim one 12-inch edge of each sheet of paper (except the brown sheet) in a wavy pattern as shown. No more than one-half inch should be trimmed off. This will form the bottom edge of the page.

**Step 2:** Stack the colored paper in the following order: white (top sheet), light blue, dark blue, black, and brown (bottom sheet). Be sure that the bottom edge of each sheet is visible as shown.

**Step 3:** Staple all the sheets together at the top to bind the booklet.

**Step 4:** The brown, black, dark blue, and light blue pages represent the four zones of the ocean. Label the bottom of each page with the appropriate zone name. On each page, include drawings of plant and animal life found in that zone as well as a brief description of the zone.

**Step 5:** Decorate the white cover with illustrations and the title "Under The Sea."



## Background Information:

Descend into the ocean depths, and you will pass through four distinct zones on your way to the ocean floor. The deeper you go, the colder and darker the water becomes.

- The ***sunlight zone***, also known as the *epipelagic zone*, is the most productive layer. It lies just beneath the surface of the ocean and extends down to 650 feet. Many plants and animals live in this zone.
- The ***twilight zone***, also known as the *mesopelagic zone*, begins at 650 feet and continues down to 3,250 feet. Very little sunlight reaches this zone, so plants cannot grow here. Animals in this zone swim up to the sunlight zone to feed at night.
- The ***bathypelagic zone*** ends at approximately 19,700 feet below sea level. It is pitch dark in this zone. Very few animals live here. Finding food is very difficult. Some animals eat particles that drift down from the zones above.
- The ***hadal zone***, also known as the *abyssopelagic zone*, consists of anything below 19,700 feet, including the ocean floor. Very few animals live here. Finding food is very difficult. Some animals eat particles that drift down from the zones above.