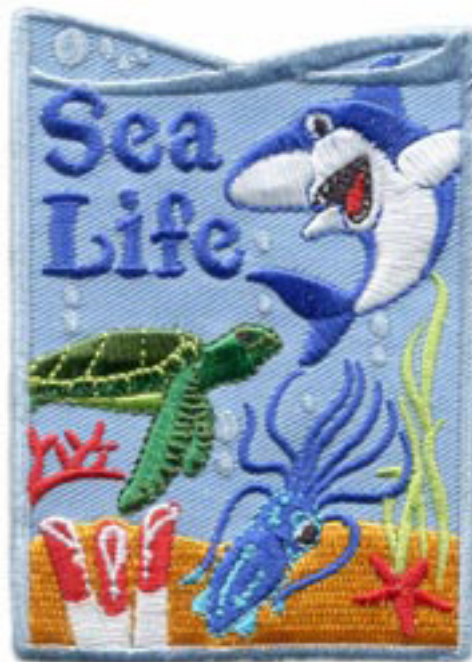


# SEA LIFE

## CHALLENGE KIT



This kit was created to assist you in completing the *Sea Life Challenge Kit*. Included are facts, stories, crafts, games, recipes and information.

# Detailed Outline

**Page 5: PATCH REQUIREMENTS** is the section of the booklet that details what needs to be accomplished in order to earn each patch.

**Page 6-31: TEACHING PAGES** contain information that can be used to teach the subject being discussed. In this case the topics are:

- *Sunlight Zone*
- *Twilight Zone*
- *Midnight Zone*
- *Abysal Zone*
- *Trench Zone*

**Page 32-42: CRAFT PAGES** detail ideas for crafts that pertain to the subject matter. Includes:

- *My Sea Canal*
- *Deep Sea Snow Globe*
- *Just Keep Swimming Picture*
- *Deep Sea Keychain*
- *Plate O'Fish*
- *Submarine Colouring Sheet*

**Page 43-46: RECIPE IDEAS** give suggestions about what kind of food would go well with the theme. Some recipes included are:

- *Turtle Droplets*
- *Jell-Ocean*
- *Tuna Tacos*
- *Cup-Sea Cakes*
- *Homestyle Fish and Chips*

**Page 47-64: GAMES** are pages filled with fun events for any Guiding group to do. The Sea Life games are:

- *Swimming in the Dark*
- *Fast Fish Races*
- *Marine Mini-Games*
- *Fishing Hole*
- *Sentence-by-Sentence Story*
- *Capture the Fish*

**Page 65-73: PUZZLE PAGES** test your mind's skill and endurance with:

- *Sea Life Word-Fit*
- *Ocean Search*
- *Fish Escape Maze*
- *Zone Scramble*

**Page 74-80: BIBLIOGRAPHY**

**Page 81: FEEDBACK FORM**

# Patch Requirements

## TO EARN THE PATCH:

All age levels need to complete 6 requirements from the list to earn the *Sea Life Patch*.

## SEA LIFE PATCH:

1. Discover all five layers of the ocean and the creatures that live in them.
  - Take a trip to a local aquarium, museum, or special event to learn more about the ocean's creatures.
  - Complete a Once Sentence Story. In small groups, write and act out a 5 minute play based on the story.
2. Discover a new ocean animal not included in this program and introduce it to your group.
3. Watch a movie or documentary about the ocean. Here's a list of movies to give you some ideas:
  - BBC Oceans
  - Planet Earth: Ocean Deep
  - Blue Planet
  - Finding Nemo
  - Shark Tale
  - Jaws
4. Play Marine Mini Games as a group.
5. Complete a game of Fishing Hole using all of the different creatures in this program.
6. Solve all of the puzzles included in the Puzzle Section.
7. Complete a Jell-Ocean (see Recipes). At least 3 of the fruit sea creatures must be animals featured in this program. Here are some ideas to help you design your fish:
  - Orange segment lion's mane jellyfish
  - Green sea turtles made with grapes.
  - Strawberry great white sharks
  - Apples are good to carve most shapes.
8. Make a Sea Canal with the group.
9. Choose and complete two recipes. Try a taste of the ocean.
10. Take a group trip to a local beach or pool. Play water-themed games and have Fast Fish Races.

## Teachings: Sunlight Zone

### GREAT WHITE SHARKS

Great white sharks live in most coastal and offshore waters. Even though they live most of their lives in the Sunlight Zone, they have been recorded as low as 1,120 meters (3674.5 ft.) deep. They are found near the US (Hawaii and Northwest of the Atlantic), New South Wales, South Africa, Japan, South Australia, New Zealand, Chile, and the Mediterranean Sea. Each year, a pod of several hundred sharks, one of the densest populations in the world, gathers near Dyer Island in South America.

Male sharks usually reach 4 meters (13 ft.) in length, while females grow up to 5 meters (16 ft.). Although these are the usual lengths, they have been recorded at intimidating lengths of 6 meters (19.7 ft.). The average Great White Shark will weigh in anywhere between 1,500 pounds (680kgs) and a hefty 2,400 pounds (1,100kg). They live for roughly 30 years

These sharks have some of the sharpest hunting instincts in the world. They have an acute sense of smell, sharp eye sight, and electromagnetic sensory cells that allow them to detect the faint electric charges produced by other creatures' muscle movements. Their sense of smell is so strong, they can smell one drop of blood in 100 liters (25 gallons) of water!

Great white sharks will eat almost anything. They have been known to even eat things that they can't digest. They prefer to eat sea mammals, large fish, other sharks, and whales. Because they are very active fish, they have a high metabolism. They have been known to eat as often as three times a day, yet they can go as long as a month without feeding.

Great whites have 3,000 teeth arranged in several rows behind their main teeth. The first two rows are used to catch their prey; the other rows rotate forward to replace any that are broken or lost. All of these teeth are serrated. When the sharks shake their heads back and forth, their prey is torn into smaller pieces which are swallowed whole.

Without a doubt, these are some of the most famous fish in the ocean. A great white shark starred in Steven Spielberg's 1975 film *Jaws*. Despite this terrifying image, they are not known for attacking humans in the water. When they do attack, most of the incidents are non-fatal and the swimmer survives. Researchers believe the attacks are "test bites"



## Crafts

### PLATE O' FISH

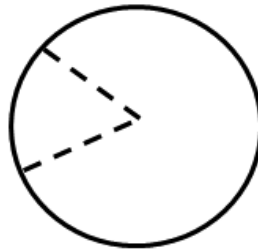
#### MATERIALS

- White paper plates (one per child)
- Crayons or markers
- Googly eyes (optional)

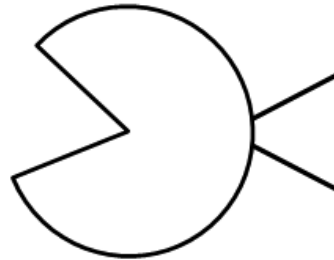
- Glitter (optional)
- Stickers (optional)
- Glue

#### INSTRUCTIONS

1. Cut a wedge out of a paper plate. The wedge should be slightly less than one-quarter of the plate. The open space left when the wedge is removed will be the fish's mouth.



2. On the end of the plate opposite of the mouth, glue the wedge to the plate. Attach the wedge by gluing the pointed end of the triangle to the bottom of the plate, as shown below.



3. Decorate your paper plate fish. Colour it in with crayons or markers. Add stickers or glitter for extra sparkle. Adding googly eyes will complete the fish and its silly look.

## Crafts

### UNDER THE SEA KEYCHAINS

#### MATERIALS

- Beads
- String
- Keyrings




#### INSTRUCTIONS

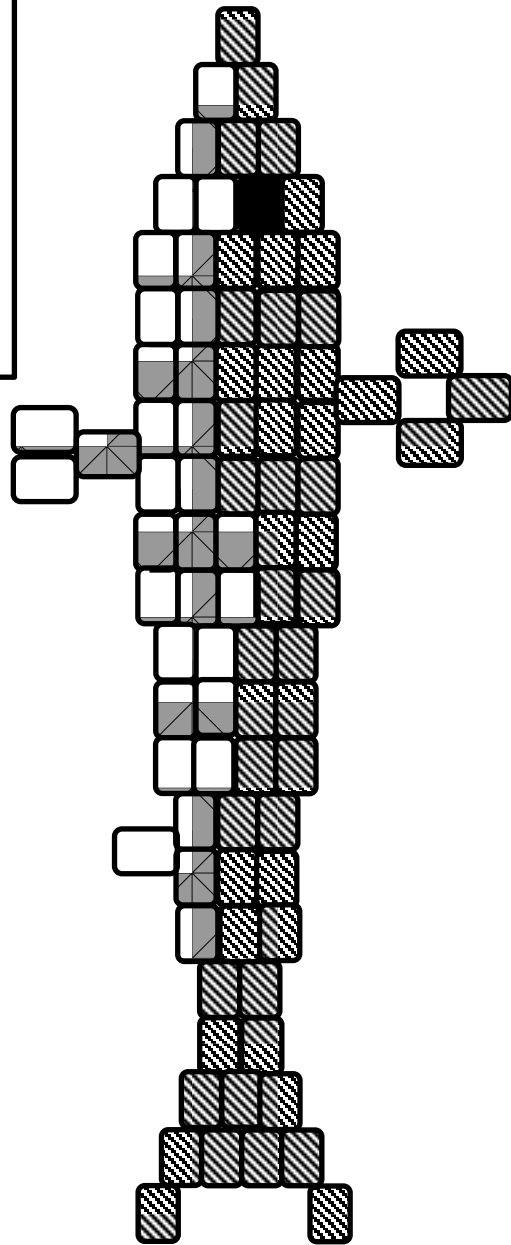
1. Using the templates (Pages 40-41) make an under the sea friend for your keys or backpack.

# Crafts

## GREAT WHITE SHARK

**LEGEND**

	White
	Black
	Blue



## Recipes

### TURTLE DROPLETS

#### INGREDIENTS

- 1 lb. package of caramels (about 54 candies)
- 2 tbsp. water
- 3/4 cup salted cashew or pecan nuts
- 6 oz. semi-sweet chocolate

#### PREPARATION

1. Melt the caramels and water in a double boiler pot, stirring occasionally. If a double boiler pot is unavailable, a regular one will work as well, but will require a lower temperature and constant stirring to avoid burning the candy.
2. Grease a baking sheet. Arrange 36 groups of nuts (about 3-4 nuts each) about two inches apart. Use a teaspoon to drop the melted caramel mixture onto each group of nuts. Let cool for about 15 minutes.
3. In a separate pot, melt the chocolate over low heat, stirring constantly. Using a clean teaspoon, drop the melted chocolate onto the cooled caramel turtles. Carefully spread the chocolate into an even layer with the back of the spoon.
4. Put the chocolates in a fridge for 20 minutes, or until the candies have hardened.

## Recipes

### JELL-OCEAN

#### INGREDIENTS

- 2 packages of blue raspberry Jell-o packets
- A large, clear plastic or glass bowl
- Strawberries
- Apples
- Oranges
- Peaches
- Any other semi-solid
- Paring knives (one per group member)

#### PREPARATION

1. Give each group member of the group a paring knife and some fruit. Let them cut out a sea creature from the fruit. Here are a few ideas for your fruity fish:
  - Strawberry hatchetfish
  - Apple sharks
  - Orange jellyfish
  - Peach blobfish
  - Apple sea turtles
  - Strawberry crabs
  - Peach rattails
2. While the group members are carving, have a leader mix the Jell-O according to the instructions on the box. It should be made in the large, clear bowl and put in a fridge.
3. About 3/4 of the way through the preparation time on the Jello-O package, remove the bowl from the fridge. Push the fruity fish into the half solidified Jell-O. Put the dish back in the fridge for it to finish setting.
4. Once you're finished, you'll see a bowl of the ocean filled with delicious (and nutritious) underwater friends.

## Games

### MARINE MINI-GAMES

#### MATERIALS

- One large piece of construction paper or cardstock and a marker
- One copy of Marine Mini-Games cards (pages 50-59)
- A stopwatch
- Blindfolds, one for each group
- Balloons
- One large plastic container for each group
- Flags or pylons to use as markers
- Sand
- A bag of rice
- Lollipops
- Goldfish crackers
- Ice cubes
- String
- Tape
- Tape measure
- Paper and writing utensils
- Calculator (optional)

Now that you've met some of the fish in the ocean, it's time to really learn how they live.

1. Divide the group into teams of two. Use a large piece of construction paper or cardstock as a scoreboard. Let the teams make up their own ocean-themed names, and write those names at the top of the scoreboard.
2. Cut out the Marine Mini-Games cue cards (attached). The right side will have a picture of the fish that the activity is themed with. The left will describe the mini-game, how many players are needed from each team, and any equipment needed for the game. Fold along the centerline so both sides face out.
3. The team that completes the challenge first wins the point. The team with the most points at the end wins.



## Games: Marine Mini-Games

### GAME CARDS

Flying fish stay in the air for up to 45 seconds at a time. That means that they hold their breath that entire time.

Who can hold their breath the longest?

**PLAYERS:** Both team members

**EQUIPMENT:** stopwatch



Green sea turtles will bury up to 200 eggs in a nest in the sand. Their nests are nearly 2 feet deep.

Bury one cup of loose, uncooked rice in a container of sand 5 centimeters deep.

**PLAYERS:** One team member

**EQUIPMENT:** A bag of rice, one large container (recycled ice cream buckets are a good size) filled with 5 centimeters of sand

