# The Amazing World of Box Jellyfish: Not Your Average Jelly!

#### **Materials Needed:**

- Access to the internet for research (e.g., National Geographic Kids, aquarium websites, kidfriendly encyclopedias)
- Paper (various colors optional)
- Drawing/coloring supplies (crayons, markers, colored pencils)
- For Model Making (choose one set of materials or combine):
  - Option 1: Clear plastic cup or small clear plastic bottle, cellophane or clear plastic wrap, string/yarn/ribbons (blue, white, clear), small googly eyes or buttons (multiple per "side" of the bell), scissors (with supervision), glue or tape.
  - o Option 2: Air-dry clay or playdough in various colors.
  - Option 3: Construction paper, pipe cleaners, glue, scissors.
- Optional: Template for a cube net (if making a paper box shape for the bell).

# **Lesson Adventure:**

### Part 1: Deep Dive Discovery (Approx. 30-45 minutes)

Welcome, intrepid marine biologist! Today, we're plunging into the fascinating, and sometimes fearsome, world of the box jellyfish. These creatures are much more complex than they look and are truly unique ocean dwellers!

### Your Mission, Should You Choose to Accept It:

- 1. What IS a Box Jellyfish? Use safe internet search (with adult help if needed) to find out:
  - What key features give them their "box" name? (Hint: Think about their bell shape!)
  - How do they move differently from other jellyfish? (Are they just drifters?)
  - Where in the world's oceans are they commonly found? (Warm waters? Shallow or deep?)
  - What kind of creatures are on a box jellyfish's menu?
- 2. **Super Senses and Shocking Stingers!** Investigate these amazing adaptations:
  - Their eyes! How many do they have, and what's so special about them compared to other jellies? (They have complex eyes, not just simple light sensors!)
  - What are nematocysts? How do these microscopic harpoons work, and why are they important for the box jellyfish?
  - Why are some species of box jellyfish considered particularly dangerous to humans?
- 3. **Field Notes:** As you research, jot down at least 5 interesting facts or draw sketches of the box jellyfish and its features. We'll use these for our creative projects!

Teacher Tip: Guide the student to use child-safe search engines or pre-selected websites. Encourage them to find answers in their own words. Discuss the difference between simply copying text and understanding the information. Ask prompting questions like, "What do you think is the most amazing adaptation they have and why?"

# Part 2: Box Jellyfish Creations! (Approx. 45-60 minutes)

Now that you're budding box jellyfish expert, let's bring these creatures to life creatively!

#### Activity A: Construct-a-Critter - Your Box Jellyfish Model!

Using the art and craft materials, it's time to design and build your own model of a box jellyfish. Remember to include its key features based on your research:

- **The Bell (Body):** How will you show its cube-like or boxy shape? (e.g., using a clear cup, folded paper, or sculpting with clay.)
- **Tentacles:** Where do they attach? How many groups of tentacles might they have? What materials can represent their trailing tentacles? (e.g., yarn, ribbons, pipe cleaners.)
- **Eyes (Rhopalia):** Don't forget their special eye clusters! Where are these located on the bell? How can you represent them? (e.g., small buttons, beads, or drawn-on spots.)
- **Color & Details:** Some box jellyfish are translucent, others have subtle colors. Add any other details you noticed from your research!

Teacher Tip: Encourage the student to explain their design choices. For example, "I made the bell clear because many box jellyfish are see-through," or "I grouped the tentacles like this because that's how they look in the pictures." This focuses on applying their knowledge.

#### **Activity B: Safety Savvy - Box Jellyfish PSA (Public Service Announcement)**

While box jellyfish are incredible, some can pose a risk to swimmers. Your task is to create a PSA to inform others about box jellyfish and promote beach safety.

Choose ONE format for your PSA:

- **Informative Poster:** Design a visually appealing poster with a catchy title, key facts about box jellyfish, and 2-3 safety tips for beachgoers.
- **Short Comic Strip:** Create a 3-4 panel comic strip telling a short story about someone safely observing or avoiding a box jellyfish, or learning a safety rule.
- Radio Jingle/Announcement Script: Write a short (30-60 second) script for a catchy radio jingle or a spoken announcement that warns about box jellyfish and provides one key piece of advice.

#### Your PSA should creatively include:

- At least one fact about what makes box jellyfish unique (e.g., "They can swim actively!").
- A clear safety message (e.g., "Admire from a distance!" or "Know before you go check local beach warnings.").

Teacher Tip: Discuss the target audience (e.g., families at the beach). What kind of message would grab their attention and be easy to understand? Encourage pairing visuals with text for posters/comics, or using an engaging tone for scripts.

# Part 3: Showcase & Synthesis (Approx. 15-20 minutes)

It's time for the grand reveal! Share your amazing box jellyfish creations.

- **Present Your Model:** Explain the different parts of your box jellyfish model and how they represent the real animal's features. Why did you choose the materials you did?
- **Share Your PSA:** Present your poster, read your comic strip panels aloud, or perform your radio jingle/script. Explain the main message you wanted to convey.

#### Let's Reflect:

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- What was the most surprising or interesting fact you learned about box jellyfish today?
- How is a box jellyfish different from the jellyfish toys or cartoon jellyfish we often see?
- Why is it important for people to know about animals like box jellyfish, especially if they live near or visit the ocean?
- Which activity did you enjoy more, building the model or creating the PSA, and why?
- If you were to design a research submarine to study box jellyfish up close, what special feature would you give your submarine?

Excellent work, marine biologist! You've not only learned about box jellyfish but also applied your knowledge in creative and practical ways! Keep exploring the wonders of the ocean!