

**Materials:** Plain paper, pencil, colored pencils or markers, calculator (optional), ruler.

## **Lesson Activities:**

### **Introduction (5 minutes):**

"Hey! Since you enjoy fishing so much, let's take about 30 minutes to explore how fishing connects to different school subjects like Science, Math, English, and Art. It's pretty cool how they all link up. Ready to dive in?"

### **Science & Math Minute (10 minutes):**

"First, let's think Science. How do fish stay underwater without sinking or just floating right to the top? (*Guide discussion towards buoyancy, shape, fins, maybe swim bladders if known*). Different fish are adapted perfectly for where they live and what they eat. Think about the shape of a trout versus a flounder – why are they different?"

"Now for a quick Math connection. Let's imagine you catch a bass that's 40 cm long. A rough estimate for bass is that they weigh about 50 grams for every centimeter of length. Can you estimate how much your 40 cm bass would weigh? (*Student calculates  $40\text{ cm} * 50\text{ g/cm} = 2000\text{ grams}$ , or 2 kg*). Or, if you prefer, quickly sketch a fish shape and use your ruler to measure its total length and its height at the widest part. What's the ratio of length to height?"

### **Art & English Expression (10 minutes):**

"Okay, let's switch gears. Grab your paper and drawing supplies. Think about your favorite fish to catch or one you find interesting. Take about 5-7 minutes to draw it. Try to get the main shapes right – the fin placement, the body shape, the mouth. Does it have unique patterns or colors? Add those in!"

"Now, below or beside your drawing, take the last few minutes to write a short paragraph – just 3 to 5 sentences – describing the feeling of being out fishing OR describing the fish you drew. Try to use words that describe what you see, hear, feel, or even smell when you're fishing."

### **Wrap-up (5 minutes):**

"Awesome job! Can you show me your drawing and read your paragraph? That really captures the feeling/look! So today, just by thinking about fishing, we touched on Science (how fish live in water), Math (estimating size/weight), Art (drawing what we see), and English (describing the experience). See how everything connects back to your interests? Keep thinking about these connections next time you're out fishing!"