

Copperbanded Butterfly Fish: Environmental Parameters (partial list)¹	Human Schoolchildren: Environmental Parameters²
<p>Aquarium type: Saltwater Reef Tank size: 75 gallon (284 liters) minimum Temperature: 75–82°F (25–28°C) Water quality: Water changes: 20%/week Water flow level: high pH: 8.1 – 8.4 Specific gravity: 1.020–1.025 Carbonate hardness (dKH): 8–12° Ammonia: 0 Nitrite: 0 Nitrates: 0 Phosphates: < 0.05 ppm Magnesium: 1200–1400 ppm Iodine: 0.06 meq/L Oxygen: 5–7 ppm Calcium: 350–450 ppm Light: 4–10 watts/gal., depending on depth T5-HO/metal halide/VHO fluorescent/ actinic Actinic to full spectrum ratio: 1:1 CRI: 90–99 Color temperature: 5500–10,000K Cycle: On 10–12 hrs, off 12–14 hrs</p>	<p>Classroom type: <i>Not specified</i> Classroom size: <i>Varies by state and grade</i> Temperature: <i>By state; most 68–75°F</i> Air quality: Air changes: <i>By state; most not specified</i> Nitrogen (N2): <i>Not specified</i> Oxygen (O2): <i>Not specified</i> Argon (Ar): <i>Not specified</i> Carbon dioxide (CO2): <i>By state; most <1000 ppmv [OSHA adult limit]</i> Neon (Ne): <i>Not specified</i> Helium (He): <i>Not specified</i> Methane (CH4): <i>Not specified</i> Krypton (Kr): <i>Not specified</i> Hydrogen (H2): <i>Not specified</i> Water vapor (H2O): <i>Not specified</i> Carbon monoxide (CO): <i>Not specified</i> Light: <i>By state; typical = 50 foot candles at work surfaces, type not specified</i> Acoustics: Noise: <i>By state; most < 55 dBA</i> Reverberation: <i>By state; typical = 0.4–0.6 seconds in classrooms</i></p>

References:

¹ Sample data compiled from various on-line resources, principally www.fishlore.com and www.algone.com.

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