

Equipment List	Suitable Environment Materials
<p>Except for the chiller, all the standard TIC equipment is listed in the table below. The brands listed are those that have been successful in classrooms. Comparable equipment should also work.</p> <ul style="list-style-type: none"> • Fluval 405 canister or Hagen AquaClear filter filter media-- appropriate for filter • Pea-size Gravel • Whisper 20 Air Pump • Sandstone 12" Airstone • 8' Flexible Airline Tubing • Check Valve - 1 pk • Net Breeder -- or homemade basket • Battery Operated Digital Thermometer • Floating Thermometer • 4" Net • Microbe Lift or other bacteria boost • Siphon Gravel Cleaner • 10'-15' Flexible Tubing 5/8"*** • Zinc Plated Clip 1/2" 2 pk** • Freshwater Master Test Kit 	<ul style="list-style-type: none"> • tank (30-55 gallons) • table, counter, or stand for the tank • something to shade the eggs and young alevins from UV light (cardboard, Styrofoam, or dark cloth). <p>insulation for the tank (foam board from a home store, bubble wrap, or the like)--<i>this helps stabilize the tank temperature and reduces wear on the chiller.</i></p> <p style="text-align: center;">Other Equipment (as needed)</p> <ul style="list-style-type: none"> • Turkey baster to remove dead eggs and extra food/waste from the tank (some prefer pipette or bent paper clip) • Buckets (2 or more), to age water before putting in the tank • Battery-operated aerator, to give the trout oxygen during transportation (available at pet stores) • Long-handled scrub brush, to loosen grime and growth in tank • Ammonia removal compound, for use in ammonia emergencies (available at pet stores) • Tap-water-safe compound, for use in emergency water changes (available at pet stores) • Clean ice packs, for use in transportation and/or chiller emergencies
<p style="text-align: center;">Chillers</p> <p>A chiller to keep the tank's water temperature at about 50° Fahrenheit. Most chillers are only designed to chill aquarium water to around 60°-70° Fahrenheit. Therefore, for our program, we must purchase chillers that are rated for a larger size tank--for example, for a 55-gallon TIC tank, we purchase at least 1/4 horsepower chillers which are technically designed for 100-125 gallon tanks. Some classes prefer to purchase 1/3 horsepower chillers, just to increase longevity by decreasing wear. By using a more powerful chiller, we decrease our chances of burning our chiller out after only a year or two.</p>	<p style="text-align: center;">Equipment Replaced Yearly</p> <ol style="list-style-type: none"> 1. Filter pads or cartridges—<i>some parts of the filter can just be rinsed, scrubbed, and dried, but consumable components such as charcoal filters should be replaced.</i> 2. Airstone and check valve--<i>these two pieces can degrade or get gummed up with waste.</i> 3. Water Quality Test Kit--<i>at the end of one school year, you will have used up most of the reagents and other testing materials.</i> 4. Microbe Lift, TapSafe--<i>or whichever aquarium compounds you are using to boost the bacterial population and manage water chemistry.</i>