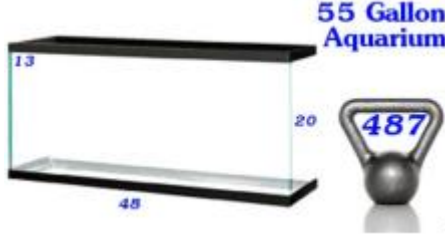
















TIC Equipment List




What to look for:	Product Name:	Purpose/Instructions:	Notes:
 <p>55 Gallon Aquarium</p>	<p>45-55 Gallon Fish Tank</p>	<p>The most widely used tank size for TIC is a 55-gallon fish tank. Larger tank size is limited by our chiller capacity and tanks smaller than 40 gallons are more prone to overcrowding by fingerling trout.</p>	
	<p>Fluval Aquarium Canister Filter</p> <p>or</p> <p>Aqua Clear Power Filter</p>	<p>The foam media inside of the filter helps to remove the physical and soluble chemical waste products, such as fish waste and leftover food, from the aquarium. The charcoal media helps to bind and neutralize harmful chemicals while the ceramic "beads" help provide a surface for the growth of nitrogen fixing bacteria.</p> <p>Fluval tubes can be cut and adjusted to fit your tank and filter height.</p>	

	<p>Chiller Option #1</p> <p>1/4 HP Tradewind Drop-in Chiller and controller</p>	<p>The chiller cools water to around 51°F. It is essential that the chiller is placed in a well-ventilated area, 24" away from any barrier.</p> <p>Coils should be submerged with ¼ inches of the metal out of the water and placed near the filter output hose with water spraying towards the coil. The filter intake should be on the opposite side of the tank to circulate chilled water.</p> <p>The controller plugs into chiller unit and into the outlet. The temperature sensor is placed in the water (older models require clear tube around sensor). Temperature should be set to 55°F, Dif to 1, and CI (not HI).</p> <p>More info at: tradewindchillers.com</p>	
	<p>Chiller Option #2</p> <ul style="list-style-type: none"> • Aqua Euro - chiller ¼ hp • Mag Drive 700 pump • Female insert adapter • Flexible Tubing • Stainless Steel Hose Clamp • Outlet Tube & Diffuser for Magnum 220 	<p>The Aqua Euro is a flow through chiller which must be used with a pump (Mag Drive pump). The pump and chiller are connected with tubing which brings water into the chiller, cools the water to 51°F, then outputs the water via another tube and diffuser. The hose clamps and insert adapters are used to secure all of the connections.</p> <p>The Aqua Euro has a digital LED display with easy programming and connection with the pump helps to better circulate the tank water. Insulating the input and output hoses helps with chiller efficiency and reduces algae growth in the tubes.</p>	

	<p>Battery Operated Digital Thermometer</p>	<p>The thermometer should be placed at the opposite end from the chiller. Temperatures between 50 and 55 degrees Fahrenheit are suitable for trout although 51-52 degrees Fahrenheit is ideal.</p>	
	<p>Net</p>	<p>Scoop out any "waste" or "decaying" material from your trout tank and also used to remove fish for transport to release site.</p>	
	<p>Lee's Squeeze Bulb Ultra Gravel Vac</p>	<p>Used to remove water from the tank during water changes. 20% water changes are recommended once per week after the trout start feeding. The gravel vac helps to vacuum the waste material trapped in the gravel.</p>	
	<p>Net Breeder</p>	<p>Ideal as a maturation tank for fry. In addition, it can also be used to isolate injured or aggressive fish.</p>	

	<p>Microbe-Lift Special Blend - 16oz.</p>	<p>Adds healthy bacteria to the water. Start using once the trout tank is set up (48 hours before adding trout eggs) and follow instructions on bottle for proper doses and timeline.</p>	
	<p>NovAqua Plus -16oz.</p>	<p>Helps to remove chlorine from tap water and provides a slimy coating to help protect trout during stress. Add to tank before adding fish/eggs and after every water change.</p>	
	<p>AmQuel Plus - 16oz.</p>	<p>Helps to remove chlorine, ammonia and metals from tap water. Add to tank before adding fish/eggs and after every water change.</p>	

	<p>Chemi-Pure Aquarium Filter Media (2)5oz</p>	<p>Chemical absorption filter, ion generator, and exchange unit used to keep pH at a perfect and constant level. Aids in the natural balance of positive and negative charges, with an emphasis on the beneficial negative ion.</p>	
	<p>Nite-Out II - 16 oz</p>	<p>Designed to help stabilize ammonia and nitrite.</p>	
	<p>GH & KH Hardness Test Kit for Freshwater</p>	<p>Test the hardness of your water to determine how to balance tank pH. Low KH values may mean that adding crushed coral to your tank could help better balance the pH.</p>	
	<p>Freshwater Master Test Kit</p>	<p>Testing for ammonia, nitrite, nitrate, and pH is recommended at least once per week. This is a great task for older students (grades 4 and up). Results help determine the health of your tank.</p>	

	<p>Insulation material</p>	<p>Necessary for lengthening the life of your chiller, keep tank cool, and reducing energy usage especially when the classrooms are heated during the winter months.</p>	
	<ul style="list-style-type: none"> • Whisper 60 Aquarium Air Pump • Aqua Mist Airstone - 10in • Flexible Airline Tubing - 8ft • Check Valve 	<p>An air pump is used to add oxygen to the water. Trout have delicate gills and require high dissolved oxygen levels in their habitat. Attach the air stone to the pump with the airline tubing. Install a check valve by cutting the tubing to prevent back flow and flooding in your classroom!</p>	
	<p>Freshwater Substrate - River Jewels - 5lb bag</p>	<p>Rinse and add a very thin layer of gravel to your tank to create comfortable hiding places for trout as well as surfaces for healthy bacteria growth. Gravel must be vacuumed using a siphon at least once per week after the trout leave the nest basket.</p>	