




## ATU Milestones:

ATUs	Teacher Intervention (TI) or Observable Moment (OM)
200- 300 	<p><b>TI:</b> Receive eggs, acclimatize (as needed), and release eggs into floating Incubation Basket in Aquarium.</p> <p><b>OM:</b> Fertilized rainbow trout eggs have two large, black eyes. Look for two black spots (eyes) in each egg. Eggshell is softening during this period.</p>
200– 350	<p><b>TI:</b> Remove and discard dead white eggs and empty eggshells. Record mortalities on the Fish Health Spreadsheet.</p> <p><b>OM:</b> Alevin start to hatch. Transparent eggshells will be visible in the Incubation Basket.</p>
320 – 350 	<p><b>OM:</b> All eggs should be hatched. Alevin have distinct yolk sacs on their bellies. Looking closely, you will be able to see fat bubbles in the yolk. Alevin absorb nutrients from their yolk sac as they rest at the bottom of the egg Incubation Basket. The yolk sac will gradually shrink as the alevin grow.</p>
400 – 410	<p><b>TI:</b> Add Nutrafin Cycle to the Aquarium at the “new aquarium installation” rate to start bacterial community growth in the gravel and biofilter. Add a very small pinch of fish food #1 to your tank each day to sustain your biofilter bacteria.</p>
500 – 530	<p><b>TI:</b> First water change. The fish will still be in the egg Incubation Basket.</p> <p><b>OM:</b> Alevin yolk sacs begin to shrink.</p>
550 – 570	<p><b>TI:</b> Release alevin from Incubation Basket after 75% “swim up” to look for food. Begin feeding schedule (feed #1).</p> <p><b>OM:</b> Alevin begin to swim to the water's surface. Alevin are transforming into fry as their yolk is all used up. Their yolk sac gets absorbed.</p>
~970 	<p><b>TI:</b> Switch to feed #2, as described in the Feeding Schedule Spreadsheet. Begin testing pH daily and ammonia weekly.</p> <p><b>OM:</b> No longer have a yolk sac for nutrients, so will need a source of food. As fry grow, Parr marks (vertical black stripes) are visible down their sides and their scales and fins develop grey/brown colours.</p>
1000	<p><b>TI:</b> Complete a media change of your Fluval Filter as described in the Technical Manual.</p>
1250	<p><b>TI:</b> Switch to feed #3, as described in the Feeding Schedule Spreadsheet.</p>
1300	<p><b>TI:</b> Complete secondary media change of your Fluval Filter as described in the Technical Manual</p>