

ATU Milestones:

ATUs	Teacher Intervention (TI) or Observable Moment (OM)
200- 300 	TI: Receive eggs, acclimate (as needed), and release eggs into floating Incubation Basket in Aquarium. OM: Fertilized rainbow trout eggs have two large, black eyes. Look for two black spots (eyes) in each egg. Eggshell is softening during this period.
200– 350	TI: Remove and discard dead white eggs and empty eggshells. Record mortalities on the Fish Health Spreadsheet. OM: Alevin start to hatch. Transparent eggshells will be visible in the Incubation Basket.
320 – 350 	OM: 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.
400 – 410	TI: 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.
500 – 530	TI: First water change. The fish will still be in the egg Incubation Basket. OM: Alevin yolk sacs begin to shrink.
550 – 570	TI: Release alevin from Incubation Basket after 75% “swim up” to look for food. Begin feeding schedule (feed #1). OM: 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.
~970 	TI: Switch to feed #2, as described in the Feeding Schedule Spreadsheet. Begin testing pH daily and ammonia weekly. OM: 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.
1000	TI: Complete a media change of your Fluval Filter as described in the Technical Manual.
1250	TI: Switch to feed #3, as described in the Feeding Schedule Spreadsheet.
1300	TI: Complete secondary media change of your Fluval Filter as described in the Technical Manual