

TROUT IN THE CLASSROOM CURRICULUM MAP

Theme	Concepts	Activities	<u>Assessment Anchors</u>	<u>Standards</u>	
<b>Watersheds (Pre aquarium set-up activities)</b>	Watersheds	Build a Watershed Branching Out	S8.A.3.2 S8.(A.3.2), (D.1.3)	3.1.7.B; 3.2.7.B; 3.2.10.B; 4.1.7.B; 4.1.12.C	
	Water Quality Parameters	Grab a Gram	M5.B.(1.1, 2.2) S8. A.2.2	2.3.5.A 3.7.7.B	
		From H to OH	S8.A. (1.1, 2.1, 3.2, 3.3) S8.C.1.1	3.2.7.B, 3.4.7.A	
		Dirty Water	S8.C.1.1 S8.(A.3.2), (D.1.3) S8.(B.3.2), (D.1.3)	3.4.7.A 4.1.7.B, 4.3.7.B	
		Too Much of a Good Thing	S8.A. (1.1, 2.1, 3.2, 3.3) S8.(A.3.2), (D.1.3)	3.2.7.B 4.1.7.B	
		Silt, A Dirty Word	S8.(A.3.2), (D.1.3) S8.(B.3.2), (D.1.3)	4.1.7.B, 4.3.7.B	
		Stone Soup	S8.A. (1.1, 2.1, 3.2, 3.3) S8.C.1.1 S11.A.(2.1, 3.2, 3.3)	3.2.7.B, 3.4.7.A 3.2.10.B	
		There is No Point to this Pollution	S8.(A.3.2), (D.1.3) S8.(B.3.2), (D.1.3) S8.(B.3.1), (D.1.3)	4.1.7.B, 4.3.7.B 4.1.12.C	
		Water Quality Monitoring Connecting Water Quality Parameters, Habitats, and Aquatic Life	A Snapshot in Time	S8.A. (1.1, 2.1, 3.2, 3.3) S11.A.(2.1, 3.2, 3.3) S8.(A.3.2), (D.1.3) S8.(B.3.1), (D.1.3)	3.2.7.B 3.2.10.B 4.1.7.B 4.1.12.C
			Water Quality Monitoring, from design to data	S8.A. (1.1, 2.1, 3.2, 3.3) S11.A.(2.1, 3.2, 3.3)	3.2.7.B 3.2.10.B

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		Water Quality Windows	S8.(B.3.1), (D.1.3) S8.D.2.1 S11.D.1.3 S8.(B.3.1), (D.1.3)	4.1.12.C 3.5.7.C 3.5.10.D 4.1.7.C
		Video clip Back the Brookie	What is a watershed? What is the water cycle? What is acid rain & how can it be measured?	
<b>Aquarium Set Up and Start Up</b> Duration 10 days	Amount and distribution of water on Earth	Drop in the Bucket or	S4.D. (1.2, 1.3, )	3.5.4.D; 4.7.4.A
		How Wet is Our Planet	S4.B.2.2	3.5.4.D; 4.7.4.A 4.1.7.B
	Types of Aquatic Habitats	Water, Water Everywhere	S4.D.1.1 S8.A.2.1 S4.D.1.3	3.5.4.A , 3.1.7.C, 4.1.4.A
	System set-up/components Habitat needs of aquatic organisms	What Trout Need	S4.(A.3.1), (B.1.1, B.3.1) S8.B. (1.1, 3.1)	4.6.4.A 4.6.7.A
		Designing A Habitat	S8.(B.3.1), (D.1.3)	4.1.7.C
<b>Egg Arrival, Incubation, &amp; Hatching</b> Duration 5-15 days	Initiate sampling/monitoring program/data collection	Hitting the Mark	S11.A.(2.1, 3.2, 3.3)	3.2.10.B
		Monitoring and Record Keeping	S8.A. (1.1, 2.1, 3.2, 3.3) S8. A.2.2 S8.(B.3.1), (D.1.3)	3.2.7.B, 3.7.7.B 4.1.7.C
	Life cycles of aquatic organisms	It's a Trout's Life	S8.(B.3.1), (D.1.3)	4.1.7.C

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	Trout reproduction		S8.B. (1.1, 2.1)	4.7.7.B
		Only the Strong Survive	S8.B. (1.1, 3.1)	4.6.7.A
		When will They Hatch?	S8.A.3.2 S8.(B.3.1), (D.1.3) S8.B. (1.1, 3.1)	3.1.7.B 4.1.7.C, 4.6.7.A
		Video (UW Extension): Water Bugs		
		Video clip (PFBC): Trout production Video clip (PFBC): PA trout		
		Video clip (BTB): What is a Brook Trout and why are they important?		
<b>Fry to Fingerling</b> Duration 4-6 weeks	Sampling/monitoring program/data collection	Monitoring and Record Keeping	S8.A. (1.1, 2.1, 3.2, 3.3) S8. A.2.2 S8.(B.3.1), (D.1.3)	3.2.7.B, 3.7.7.B 4.1.7.C
	Trout/fish biology	The Trout Body	S8.(A.2.2), (B.1.1) S4.A.(1.3, 2.1) S8.B. (1.1, 2.1)	3.3.7.A 4.7.4.B 4.7.7.B
		This Fish has a Scale to Tell	S8.(B.3.1), (D.1.3) S8.B. (1.1, 3.1)	4.1.7.C, 4.6.7.A
		Video clip (BTB): Brook trout history & importance		
<b>Fry to Fingerling (cont)</b>	Aquatic adaptations Predator/Prey	Fashion A Fish, Pennsylvania Style or Fashion a Fish (APW)	S8.(A.2.2), (B.1.1) S4.B.2.2 S8.(B.3.1), (D.1.3) S8.B. (1.1, 2.1)	3.3.7.A 4.7.4.A,B 4.1.7.C, 4.7.7.B
		Perch to Periscopes	S4.B.2.2	4.7.4.A
		Guess Who's Coming to Dinner	S4.(A.3.1), (B.1.1, B.3.1) S8.B. (1.1, 3.1)	4.6.4.A 4.6.7.A

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Theme	Concepts	Activities	<a href="#">Assessment Anchors</a>	<a href="#">Standards</a>
		Video clip (BTB): What do they eat and where do they live?		
	Fish Identification	Getting to Know Your Local Fish	S8.(A.2.2), (B.1.1)	3.3.7.A
	Population Growth and Limiting Factors	Go Fish	S8.B. (1.1, 3.1) S11.(A.3.2), B.3.1)	4.6.7.A 4.6.10.A
		How Many Bluegills Can Live in this Pond	S8.B. (1.1, 3.1)	4.6.7.A

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<b>Theme</b>	<b>Concepts</b>	<b>Activities</b>	<b><u>Assessment Anchors</u></b>	<b><u>Standards</u></b>
	Distribution	Home on the Range	S8.B. (1.1, 3.1) S11.(A.3.2), B.3.1)	4.6.7.A 4.6.10.A
<b>Habitat</b> (fingerling life stage) Duration 4+ weeks	Sampling/monitoring program/data collection	Monitoring and Record Keeping	S8.A. (1.1, 2.1, 3.2, 3.3) S8. A.2.2 S8.(B.3.1), (D.1.3)	3.2.7.B, 3.7.7.B 4.1.7.C
<b>Habitat (cont.)</b>	Stream habitats; trout habitats	Trout Stream, By	S4.(A.3.1), (B.1.1, B.3.1) S8.(B.3.1), (D.1.3) S8.B. (1.1, 3.1)	4.6.4.A 4.1.7.C 4.6.7.A
		Aquatic Adventures	S4.(B.3.1), (D.1.3) S4.(A.3.1), (B.1.1, B.3.1)	4.1.4.C, 4.6.4.A
		Habi-Trout	S11.(A.3.2), (D.1.1, 1.3)	4.1.10.B
	Impacts of ecosystem changes	Dragonfly Pond	S8.(B.3.2), (D.1.3)	4.3.7.B
<b>Fish culture &amp; Management</b> (fingerling life stage) Duration 4+ weeks	Fish as a food source, aquaculture	Water We Eating	S4.D.1.(2,3) S4.D.1.2 S4.A.3.1	3.5.4.D 4.2.4.B, 4.4.4.C
	Trout management & protection Stocking PA History	Where Have All the Shad Gone  Estimating Fish Populations	S8.B. (1.1, 2.1) S8.A.1.3  M11.A.3.2 S11.A.3.2 S11.A.2.2	4.7.7.B 4.7.7.C  2.2.11.B 3.1.10.B, 3.7.10.B

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<b>Fish culture &amp; Management</b> (fingerling life stage) Duration 4+ weeks (cont.)	Trout management & protection  Stocking PA History (Cont.)	Water Quality Monitoring, from design to data (emphasis on fish community & trout population)	S8.A. (1.1, 2.1, 3.2, 3.3) S11.A.(2.1, 3.2, 3.3)	3.2.7.B 3.2.10.B
		Be a Friend to Fishes	S8.(B.3.1), (D.1.3) S4.(B.3.1), (D.1.3)	4.1.12.C 4.1.4.C,
		To Stock or Not to Stock	S4.(A.3.1), (B.1.1, B.3.1) S8.B.3.2	4.6.4.A 4.8.7.D
		To Dam or Not to Dam	S8.A.1.3 S11.C.2.2	4.8.7.C 4.8.10.C
		Dam Design	S8.A.1.3 S8.B.3.2 S11.C.2.2	4.7.7.C, 4.8.7.D 4.8.10.C
	Trout Fishing			