

Hooks and Ladders

1. **Introductions**
2. **Question students about their knowledge on life cycles, migration, local fish habits, etc.**
3. **Explain that they are going to become Pacific salmon and try to reach their spawning grounds**
4. **Assign students roles in the game**

2 people as turbines	2 people as predators
2 people as fishermen	All others salmon

7. **Fish enter the ocean and try to out-swim the fishermen. Fisherman must keep on foot inside the boat at all times. Fish have to travel the length of the ocean 4 times before exiting. They must collect 4 tokens - one at a time, traveling from one end of the ocean to the other. If caught, fisherman must take fish to fish ladder before returning to ocean to catch more.**

8. **All 4 tokens collected.**

9. **Salmon move to fish ladder. Must walk entire ladder before entering area of waterfall broad jump.**

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5. **Begin activity with the turbines - all fish have to go through the turbines - CANNOT GO AROUND. If hit by turbines, student has to immediately go to the fish ladder section.**

6. **Fish try to get past predators - anyone caught by a predator must be caught with BOTH hands - tagging is not enough. Caught fish are taken by the predator to the fish ladder.**

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10. **Waterfall represents natural barrier to returning to the spawning grounds. Fish must jump across the area or return to the fish ladder and walk through again.**

11. **Grizzly bears have one more chance to catch surviving salmon. Must catch with BOTH hands and then take the caught fish over to the fish ladder.**

12. **Activity ends when all salmon are gone before reaching spawning ground or when all surviving salmon are in spawning ground.**

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13. Discussion topics:

The apparent survival-mortality ratio of salmon

- a. The students' feelings throughout the activity**
- b. The role of the barriers**
- c. The role of the predatory wildlife and the fishermen**
- d. Where the losses were greatest**
- e. Where the losses were the least**
- f. What the consequences would be if all the eggs deposited made the journey successfully**
- g. What seemed realistic about the simulation and what did not**

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14. Students summarize what they learned

15. Give out hand outs

16. Compliment behavior, thank everyone for coming and answer any questions students may have.