

# Regional Science Consortium

## Fish Fight!

### What is Fish Fight?

Fish Fight is a game that allows students of all ages to learn and apply various scientific concepts by becoming a fish! Fish Fight can be played with large or small groups and has multiple variations to address different topics. Each player will act as a fish attempting to travel from one end of a stream to the other. Sounds simple right?

### Background

Organisms face a number of different challenges within their natural environments. These include predators, physical barriers, and competition for resources. As climate changes around the world, these challenges are changing too!

For this activity you will take on the perspective of a fish and fight through various challenges to reach the end of the stream. Be sure to examine how each challenge relates to fish and climate change.

### Reflection

Write your answers below to reflect upon what you learned during this fun, interactive game.

#### Beginner Mode:

1. What this challenging? Do you think this is a realistic representation of a stream?
2. How difficult was it to obtain food and oxygen to survive your trip downstream?

#### Resource Competition Mode:

1. What happens to the fish that were not able to collect food and oxygen?
2. What are some ways climate change alters the availability of resources?

Predator Mode:

1. What happens to fish that are caught by predators?
2. What happens to predators that do not catch prey in the wild?
3. How can climate change effect predators and prey alike?

Rapids Mode:

1. Rapids are naturally occurring obstacles in streams, which can become more intense after a storm event or less intense during times of drought. How did the rapids make the stream more difficult to navigate?
2. Did the location of the rapids influence their effectiveness?
3. What kinds of man-made obstacles may fish encounter in real life?
4. How does climate change contribute to rapids, man-made structures, and other current changes in streams?

Invasive Species Mode:

1. How did the presence of invasive fish species effect the native population?
2. Why might an invasive fish have the advantages listed above?