

Model Role List and Set-Up:

Farm nutrient runoff:
Teacher and/or responsible student

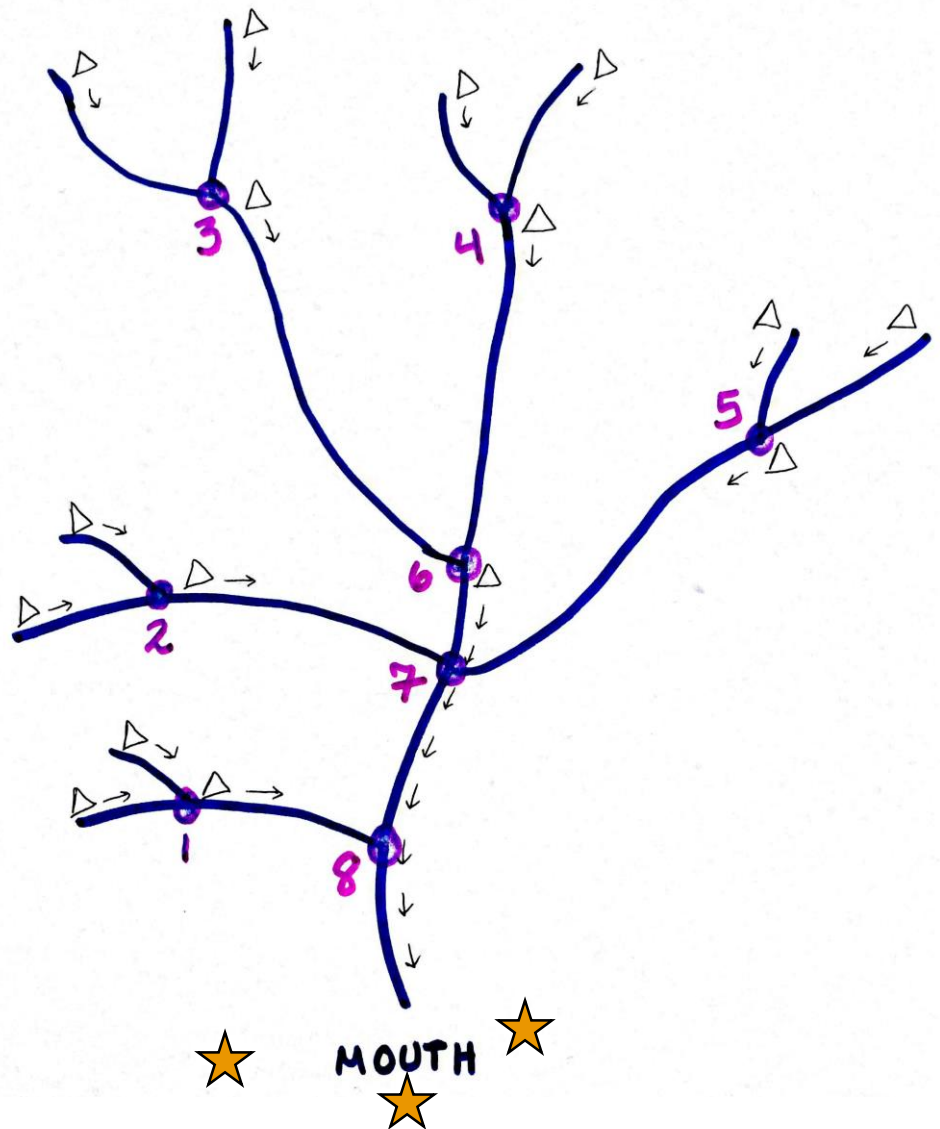


Streams and tributaries: 16 students (minimum)

Water quality monitoring stations: Depending on the number of students in your class, this could either be the role of the teacher, or you could have between 1-5 students acting as stations



Gulf of Mexico aquatic organisms: As many or few as needed to include the remaining students in the class (0+)



 Stream junction where nutrients will be counted and recorded by water quality monitors

A note about the Aquatic Organism Information Table on the Student Reference Sheet:

This table lists information about some of the species you might find living in the Gulf of Mexico. The oxygen requirements of any one species can vary, and the *minimum* oxygen requirements of an organism is actually a difficult number to pin down. Oxygen needs can vary for an organism depending on its physical state and the temperature of the water it is living in.

Information in Aquatic Organism Table from:

[A Picture Guide to Shelf Invertebrates from the Northern Gulf of Mexico](#)

[FishBase.org](#)

[Encyclopedia of Life](#)

[Habitat Suitability Index Models: Southern and Gulf Flounder](#)

http://ian.umces.edu/pdfs/ian_newsletter_170.pdf