

Monitoring Water Quality

Connections to Next Generation Science Standards (NGSS)

Next Generation Science Standards for Middle School that relate to water quality:

MS-ESS3-3: Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.

MS-LS2-5: Evaluate competing design solutions for maintaining biodiversity and ecosystem services considering the sustainability of natural resources, including water quality.

MS-LS2-4: Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations.

MS-ESS3-4: Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems, such as water quality.

Next Generation Science Standards for High School that relate to water quality:

HS-ESS3-3: Create a computational simulation to illustrate the relationships among Earth systems and how those relationships are being modified by human activity.

HS-ESS3-4: Evaluate or refine a technological solution that reduces impacts of human activities on natural systems, such as water quality.

HS-LS2-7: Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity, such as water pollution.

HS-LS2-6: Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, including the importance of water quality.