

Challenge 7: Reducing Human Impact on Biogeochemical Cycles

Suggested Resources

ARTICLES

NASA Earth Observatory. (n.d.). *Human consumption of net primary production* [Website article]. Retrieved from <https://earthobservatory.nasa.gov/images/4600/human-consumption-of-net-primary-production>

NOAA Climate Program Office. (n.d.). *Improved understanding of the nitrogen cycle* [Website article]. Retrieved from <https://climate.noaa.gov/Meet-the-Divisions/Earth-System-Science-and-Modeling/AC4/Improved-understanding-of-nitrogen-cycle>

NOAA National Ocean Service. (2021, February 26). *What is nutrient pollution?* [Website article]. Retrieved from <https://oceanservice.noaa.gov/facts/nutpollution.html>

NOAA National Ocean Service. (2021, February 26). *What is the carbon cycle?* [Website article]. Retrieved from <https://oceanservice.noaa.gov/facts/carbon-cycle.html>

Riebeek, H. (2011, June 16). *The carbon cycle* [Website article]. Retrieved from <https://earthobservatory.nasa.gov/features/CarbonCycle>

VIDEOS

Use your Internet browser to search for videos to show during class using the terms “carbon footprint,” “nitrogen footprint,” “human impacts to the carbon cycle,” “human impacts to the nitrogen cycle,” or “agricultural engineer.” Conduct this search prior to class to verify the content is appropriate for the class and the challenge.

WEBSITES

Use your Internet browser to search for resources using the terms “carbon footprint calculator” or “nitrogen footprint calculator.”

National Aeronautics and Space Administration (NASA)

<https://nasa.gov/>

National Oceanic and Atmospheric Administration (NOAA)

<https://noaa.gov/>

United States Environmental Protection Agency (EPA)

<https://epa.gov/>

Texas Career Check

<https://texascareercheck.com/>

Suggested search keywords: agricultural engineer, agricultural and food science technicians

Challenge 8: Play Smart. Play Safe. Protecting Players.

Suggested Resources



WEBSITES

NFL Player Health and Safety

<https://nfl.com/playerhealthandsafety/>

Protect the Brain

<https://protectthebrain.org/>

Science News for Students

<https://sciencenewsforstudents.org>

Suggested search keywords: brain injuries, concussions, sports and brain injuries

Texas Career Check

<https://texascareercheck.com>

Suggested search keywords: biomedical engineer, materials engineer