

# CLIMATE LITERACY LESSONS FOR 6-8

| Subject | Resources |
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| **ELA** | Fighting Climate Myths - Identifying false information about climate change in fictional social media posts<br>https://bit.ly/ClimateMSELA2<br>SUBJECT to® CLIMATE |
| **History and Social Science** | Climate Change, greenhouse effect, and cap-and-trade reading assignment & group discussion<br>https://bit.ly/ClimateMSHSS1<br>Deliberating in a Democracy |
| | Recycling - Reading assignment & group discussion<br>https://bit.ly/ClimateMSHSS2<br>Deliberating in a Democracy |
| **Math** | Raindrop to Sea - Water cycle, watershed education - NOAA collaboration (10-50 min lessons) |



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| *CA Math Framework* | https://bit.ly/Climate3-5Math1<br><br>OREGON COAST AQUARIUM |
| | The Fish Game - Interactive computer game - How different fishing practices impact ecosystems, highlighting sustainable practices<br>https://bit.ly/ClimateMSMath2 |
| **P.E.** | Living Schoolyard Activity Guide (K-12)<br>Comprehensive activity guide with over 100 activities that encourage the use of school grounds for place-based learning, artistic expression, imaginative play, and an appreciation for ecological stewardship.<br>Activities related to art, social and emotional well-being, schoolyard agriculture and food, place-based understanding, wildlife and habitat, watershed stewardship, energy and climate, thoughtful use of materials, and community engagement.<br>https://bit.ly/ClimateTKPE2<br><br>Green Schoolyards America |



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| | International School Grounds Activity Guide (K-12)<br>Outdoor activity guide containing activities for students in grades K through 12 that demonstrate how school grounds can be used for meaningful and fun activities across curricula.<br>Easy-to-implement activities for hands-on learning that will impact students, provide access to nature, and improve school grounds.<br><br>https://bit.ly/ClimateK-2PE2 |
| **Social and Emotional Learning** | Coping With Climate Anxiety - Lesson (90 mins)<br>https://bit.ly/Climate6-8SEL1<br><br>What is Earth Day? Why is it important? What can you do to help the earth? PowerPoint (1 hour)<br>https://bit.ly/ClimateEarthDay<br><br>Natural Processes and Human Activities Shape Earth's Resources and Ecosystems<br>https://bit.ly/Climate6-8SEL2 |
| | 4-minute Video: How to have effective conversations about climate change<br>The Secret to Talking About Climate Change |



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| **Science** | Climate, Weather and Trees<br>This resource provides a deeper understanding of the impact of climate variability on maple syrup production. Students learn how to analyze weather data and show trends in different spatial scales.<br><br>https://bit.ly/ClimateMSScience1<br><br><br>Transpiration and Climate Change (Water Cycle, Deforestation, and Climate Change) (110 mins)<br><br>https://bit.ly/ClimateMSScience2<br>SUBJECTto® CLIMATE |



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| | Why Does What I Eat Matter? (Climate change, Food Production, Food Security) (60 mins)<br>https://bit.ly/ClimateMSScience4<br><br><br>Impacts of human activity on the formation of clouds and the role that clouds play in climate change. (12 min podcast & classroom activity)<br>https://bit.ly/ClimateMSScience3<br>Massachusetts Institute of Technology |
| **STEAM** | Visual & Performing Arts<br>The Art of Climate Change (120 mins) -<br>Students investigate the effectiveness of visual art in addressing climate change<br>https://bit.ly/ClimateMSSTEAM2 |



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| **ALL** | Guided by California's Environmental Principles and Concepts, the Education and the Environment Initiative (EEI) Curriculum consists of 85 engaging units that address core academic standards in science, history-social science, and English language arts.<br><br>https://tenstrands.org/eeicurriculum/curriculum/<br><br>Ten Strands<br>Connecting Education, Environment, and Community |
| **ALL** | The California Regional Environmental Education Community (CREEC) Network is a program of the California Department of Education. The CREEC Network fosters regional partnerships throughout the state of California to promote environmental education and environmental literacy by providing teachers with access to high quality professional learning opportunities and education resources.<br><br>https://www.creec.org/Home/Region/11 - Los Angeles County |



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| | CREEC NETWORK<br>A PROGRAM OF THE CALIFORNIA DEPARTMENT OF EDUCATION |
| **ALL** | 12 Key Indicators of Climate Change<br>The National Science Foundation and NBC Learn have partnered to create Changing Planet, a series of 13 videos and associated lesson plans about our planet's changing climate.<br><br>https://www.windows2universe.org/earth/changing_planet/changing_planet.html&lang=en<br>WINDOWS TO THE UNIVERSE |
| **ALL** | The *Climate Change, Wildlife and Wildlands Toolkit for Formal and Informal Educators* is an updated and expanded version of the award-winning and very popular *Climate Change, Wildlife and Wildlands Toolkit for Teachers and Interpreters,* which was first published in 2001. The kit is designed for classroom teachers and informal educators in parks, refuges, forest lands, nature centers, zoos, aquariums, science centers, etc., and is aimed at the middle school grade level. The U.S. EPA, in partnership with six other federal agencies—National Park Service, U.S. Fish and Wildlife Service, NOAA, NASA, U.S. Forest Service, and Bureau of Land Management—developed the kit to aid educators in teaching how climate change is affecting the Nation's wildlife and public lands, and how everyone can become climate stewards.<br><br>*Climate Change, Wildlife and Wildlands Toolkit for Formal and Informal Educators* |

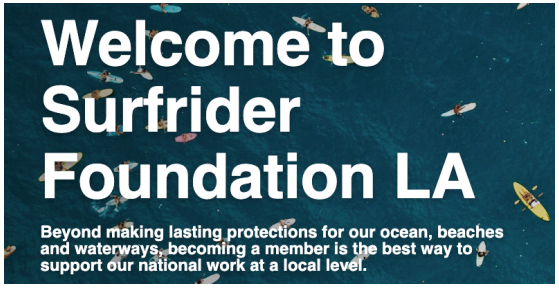


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| | GlobalChange.gov<br>U.S. Global Change Research Program |
| **STEM** | Dept. of Energy STEM Resources for K-12 Educators<br>https://www.energy.gov/doe-stem/search-doe-stem-resources?keywords=&Audience=Middle+School+Students |
| **ALL** | **Our Climate Our Future is a collection of educational resources on climate science, climate justice, and climate solutions.** Check out our collection lesson plans, discussion guides and now Kahoots! that accompany our videos. Each resource is aligned with Next Generation Science Standards (NGSS) and explores a particular aspect of climate science, justice, impacts and solutions. Resources are designed for high school grade levels, but also adaptable for middle school grades as well as informal education.<br><br>https://ourclimateourfuture.org/resources/ |



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| **ALL** | EPA website provides K-12 students and educators with access to quality homework resources, lesson plans and project ideas for learning and teaching about the environment. Environmental education (EE) is a multi-disciplinary approach to learning about environmental issues that enhances knowledge, builds critical thinking skills, and helps students make informed and responsible decisions.<br><br>https://www.epa.gov/students |
| **ALL** | Heal the Bay and Surfrider Foundation - Local beach cleanup events and teaching resources<br>Heal the Bay - Ocean & Watershed Protection in Los Angeles County<br>LA Home Page (surfrider.org) |



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| | . Heal the Bay<br> |
| **ALL** | Comprehensive list of Solutions and Challenges that address the climate crisis and the regeneration of planetary ecosystems. Each **Nexus** entry explores what can be done on all levels of agency, including individual, community, classroom, city, company, and government. For each topic, they curate organizations that are actively engaged, describe actions that can be taken, link to educational opportunities, and provide examples of transformation.<br><br>Welcome to Regeneration \| Project Regeneration<br>Regeneration |
| **ALL** | Resources and lesson plans for digging into data on everything from CO2 emissions to population density, analyzing environmental and ecological systems, and understanding renewable energy and conservation. With these resources, students can reckon with the realities of climate change and feel like a better world is possible.<br><br>Climate Change Resources for Students and Teachers \| Common Sense Education |



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| | common sense® |
| **ALL** | Climate Change Education and Sustainability - Comprehensive lesson plan collection is designed to support educators and parents in guiding preK-12 students through the complexities of climate change, a subject that young people are increasingly leading discussions on. These resources aim to address key questions such as the difference between weather and climate, their impacts on humanity and the environment, and the actionable steps that can be taken to mitigate climate change.<br><br>Climate Change Education \| Share My Lesson<br><br>aft \| sharemy lesson |
| **ALL** | CA Climate Corp - hosts volunteer events around CA and locally. Also includes Climate action resources for everyday sustainable choices<br>https://www.californiavolunteers.ca.gov/california-climate-action-corps-community-climate-action-days/<br>https://www.californiavolunteers.ca.gov/10-ways-to-take-climate-action-from-home/<br><br>CALIFORNIA VOLUNTEERS Office of the Governor |



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| **ALL** | Free Climate Change Presentations by Trained Speakers<br>https://www.laclimatereality.org/<br><br>The Climate Reality Project®<br>LOS ANGELES CHAPTER |