

Environmental Distance Learning Resources: Grades K-5

Author/ Organization	Description	Details/Length	Visual/ Video	Activity
Watershed Watch	Student Watershed Resources Includes a quiz for kids, activities, and information about pollution prevention	10 activity ideas. 5 quiz questions.		✓
Crash Course Kids	What's the Dirt on... Dirt? What is dirt made of? Join Jessi to get the dirt on ... dirt!	<4 min.	✓	
	Happy Earth Day Learn about some things you can do to make the earth a better place, including recycling.	<18 min. Birdfeeder at 8:45 Compost at 14:45	✓	✓
Watershed Watch and ZunZun	Watershed Watch Assembly Dance and sing along with the musical group ZunZun to stay active and learn about watersheds!	19 min. Includes a survey in the description.	✓	✓
	WaterBeat Movement Activity Movements to learn about water science and watersheds.	8 min.	✓	✓
	WaterBeat Activity Book Games, movements, stories, songs, pictures, rhymes, celebrating our connection to water	Teachers can choose activities to do with their students		✓
	The WaterBeat Activity Book Video. Video version of the WaterBeat Activity Book including lots of activities that align with Next Generation Science Standards (NGSS).	51 min.	✓	✓
	The Red Bag Word-free video. Kids watch a plastic bag and tell you what they see!	8 min.	✓	✓
The Watershed Project	Watershed Awareness from Home "How am I part of my watershed?" Kids explore nature via journaling, scavenger hunt, and hands-on activities.	Join Google classroom with code nd2ewzj (or email directly for materials: education@thewatershedproject.org)	✓	✓
National Oceanic and Atmospheric Administration (NOAA) and Ocean Today	Trash Talk Award-winning video discusses the source and journey of marine debris.	15 min.	✓	
	Trash Talk Webinar Webinar for teachers, with fun activities that can be used after showing the "Trash Talk".	<11 min. For teachers.	✓	✓
Save the Bay	Be a Backyard Botanist Can art be science? Students carefully observe plants and record observations as they learn the ABCs of scientific drawing.	Students may also reference online plant lists . Drawings may be shared online by tagging @savebay with #BayBackyardBotanist.	✓	✓
Grassroots Ecology and Palo Alto Regional Water Quality Control Plant	Pollution Prevention Lessons Lessons aligning with NGSS, teaching kids about topics such as local bugs, the connection between California history to water quality, and different types of household plastics.	For teachers. 6 online lessons, times vary.	✓	✓
	Neighborhood nature activities Biodiversity bingo sheets, journal prompts, and more activities that can be done with families.	Times vary.		✓
NOAA	Be an Ocean Guardian Activity book with fun facts, coloring pages, and puzzles on marine debris.	11 pages.	✓	✓
	Understanding Marine Debris Activity book with coloring pages, word search, and games on marine debris.	16 pages.	✓	✓
NOAA and Oregon State University	Trash Traits Lesson Students perform experiments to see whether trash can float, blow around, or wash away.	For teachers. ~40 min.		✓
NOAA and Colorado State University	Watersheds! Animation with watershed basics and how scientists predict stream flows from rain data.	5 min.	✓	
United States Geological Survey (USGS)	Water Cycle for Beginners Interactive diagram of the water cycle.	>5 water cycle-related vocabulary words.	✓	

Environmental Distance Learning Resources: Grades 6-8

Author/ Organization	Description	Details	Visual/ Video	Activity
Valley Water	Distance Learning Middle School Links to distance learning resources and activities, including a sign-up for a virtual tour of the Silicon Valley Advanced Water Purification Center. "Hidden Water" activity coming soon.	<i>For teachers.</i>	✓	✓
Crash Course	Ecology playlist 12 videos discussing ecology topics, including: Earth's water & carbon cycles (#8) and different forms of pollution (#11).	10 min. per video. Topic breakdown and sources are linked to in each video description.	✓	
USA National Parks Service and Google Arts & Culture	National Parks Narrated videos and interactive virtual field trips at these National Parks: Kenai Fjords (AK), Hawaii Volcanoes (HI), Carlsbad Caverns (NM), Bryce Canyon (UT), Dry Tortugas (FL)	~15-20 min. per virtual field trip.	✓	
The Watershed Project	Understanding Ecosystems from Home "What is my relationship with my local ecosystem?" Grades 6-8 will investigate this question with journaling activities and citizen science data collection.	Join Google Classroom with code jcjyhmc (or email directly for materials: education@thewatershedproject.org)	✓	✓
National Oceanic and Atmospheric Administration (NOAA) and Washed Ashore	"Roughing It" Art Lesson Art activity, using trash to discuss art elements (texture, art vocabulary)	<i>For teachers.</i> 55 minutes (introduction, texture activity, conclusion and review)		✓
Dr. Dirt	Sponge Model of Soil Hands-on activity uses a sponge to show earth science concepts including infiltration and runoff from land areas.	~15 min.		✓
NOAA and Oregon State University	Marine Debris STEAMSS: Grades 6-8 Lessons for students to explore marine debris topics: composition and abundance, sources and transport, impacts, and solutions.	<i>For teachers.</i> >20 lessons.		✓
United States Geological Survey (USGS)	Water Cycle for Schools: Intermediate Ages Interactive diagram of the water cycle.	>15 water cycle-related vocabulary words.	✓	
Fern Leaf	Interactive Watershed map of USA The interactive watershed map lets students visualize watershed regions throughout the USA. Hovering your mouse-over the map will show upstream areas in red and yellow, and downstream areas in blue.	You can click on the map at any time to freeze the map view (click on the map again to unfreeze & re-enable the dynamic loading of the watershed data).	✓	

Environmental Distance Learning Resources: Grades 9-12

Author/ Organization	Description	Details	Visual/ Video	Activity
Valley Water	<u>Watching Our Watersheds Historic Santa Clara Valley</u> Interactive “story map” for students to explore the Santa Clara Valley watershed past and present.	View full screen for guided exploration information in module on left, or manually explore.	✓	
Grassroots Ecology	<u>Be a Creek Scientist</u> Presentation slides adapting a field-based creek scientist program to a virtual and lab investigation. Students analyze water quality data and classify invertebrates from a local creek to make conclusions about local water quality.	<i>For teachers.</i> 35 presentation slides.	✓	✓
USA National Parks Service and Google Arts & Culture	<u>National Parks</u> Narrated videos and interactive virtual field trips at these National Parks: Kenai Fjords (AK), Hawaii Volcanoes (HI), Carlsbad Caverns (NM), Bryce Canyon (UT), Dry Tortugas (FL)	Can spend ~15-20 min. per virtual field trip.	✓	
iNaturalist, California Academy of Sciences, and National Geographic Society	<u>Seek</u> Use your phone and the power of image recognition technology to identify wildlife, plants, and fungi! Students independently explore nature, learn about taxonomy, and earn badges by identifying different species.	Free smartphone app, available in the Apple App Store and GooglePlay.	✓	✓
National Oceanic and Atmospheric Administration (NOAA) and Oregon State University	<u>Marine Debris STEAMSS: Grades 9-12</u> Lessons for students to explore marine debris topics: composition and abundance, sources and transport, impacts, and solutions.	<i>For teachers.</i> 18 lessons.		✓
United States Geological Survey (USGS)	<u>Water Cycle for Schools: Advanced Students</u> Interactive diagram of the water cycle, with useful links and images to learn detailed information about water cycle concepts.	Over 30 water cycle-related vocabulary words	✓	