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EarthComm Earth's Natural Resources: Water Resources and Your Community Storylines

Below are storylines that were designed by Cheryl Mosier, an Earth Science Teacher at Columbine High School in Littleton, Colorado.

An additional internet-based project is done to show students the following:

- where water is in Colorado
- how water is used in Colorado
- snow pack and drought information (4.3.2)
- graphing techniques with Microsoft Word

Big Idea:

10. In order to sustain the presence and quality of human life, humans and communities must understand their dependency on Earth resources and environments, realize how they influence Earth systems, appreciate Earth's carrying capacity, manage and conserve nonrenewable resources and environments, develop alternate sources of energy and materials needed for human sustenance, and invent new technologies.

	Activity 1 – Sources of Water in the World and Your Community	Activity 2 – How Does Your Community Maintain Its Water Supply?	Activity 3 – Using and Conserving Water	Activity 4 – Water Supply and Demand: Water Budgets	Activity 5 – Water Pollution	Activity 6 – Water Treatment
Key Evidence Learned Connection to:	 where is fresh and salt water water sources for Littleton how could we collect the rain we receive 	increase water supply	 how much water is used at Columbine High School analyze water statistics for Jeffco and surrounding counties consumptive vs. nonconsumptive uses of water water conservation at school and home 	 water budget influence of local climate on the water budget when is supply greatest and lowest quantity and availability of surface and ground water 	 pollutants in ground water pollution due to road salt how do humans affect surface and ground water quality 	 key processes and stages in water treatment how and why water is treated water treatment used in Jeffco and Littleton
Big Idea	- where our water comes from to sustain life	- where our water comes from	- amount of water used for different things	 why different areas use different amounts of water water budget comparisons 	- human impact on water sources	- how we safely use water

Real Life and Chapter Challenge	- where our water in Littleton comes from	- where our water comes from	 personal water use county water use – Jeffco compared to other local counties water conservation 	- our local water budget - our local climat	pollution	- water treatment process in Littleton
Geosphere	- location of dams and reservoirs	- surface and ground water	- conservation	- when we pull more ground water	- pollution in ground water	
Hydrosphere	- water cycle	- surface and ground water	- water uses - conservation	- water use from surface sources	- surface water pollution	- how to treat
Atmosphere	- water cycle					
Cryosphere						
Biosphere	- water needs for human life					
State Stand.	4.3.a, 4.3.b, 4.3.c	4.3.a, 4.3.c	4.3.b	4.3.b	4.3.b	4.3.b
JeffCo Stand	4.3.d, 4.3.e	4.3.d	4.3.e	4.3.e	4.3.e	4.3.a, 4.3.e
CSAP Frame		4.3.2.c	4.3.2.c	4.3.2.c, 4.2.2.b	4.3.1.a, 4.3.1.b, 4.3.1.c, 4.3.2.c	4.3.2.c
Jeffco PE					,	