

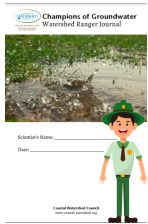


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2nd Grade: Champions of Groundwater

Guiding Question	How can we get water into the ground?
Spanish Curriculum	Campeones del agua subterránea
Students will be able to:	● Explain that water can be found under the ground. ● Identify permeable and impermeable surfaces. ● Identify surfaces that help water enter the ground. ● Use what they have learned to take on an action project that helps water get into the ground.
Supports Content Standards	Next Generation Science Standards ● 2-PS1-2: Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose. ● 2-ESS2-3: Obtain information to identify where water is found on Earth and that it can be solid or liquid.
Evaluation	Student Survey Questions (Maria's Form & Sam's Form) ● Yes/No? I can help water enter the ground (record yes answers only) ● Yes/No? I want to help water enter the ground (record yes answers only) ● Yes/No? Cement will help water enter the ground (record NO answers only) ● Yes/No? The problem of drought can be solved by helping water enter the ground. (record yes answers only) ● POST SURVEY: # of students who shared ideas for the last question (what are some things you will do to help water enter the ground?) ● POST SURVEY: What are some things you will do to help water enter the ground?

	Teacher Evaluation (Maria's Form & Sam's Form)
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Student Journal	 English Student Journal Click here to view student journal Click here for a printable version of journal Spanish Student Journal Click here to view student journal Click here for a printable version of journal
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Week	Format	Guide	Time
1	CWC Educator visit to classroom/school campus	Lesson #1 Guide	1 hour
1	Teacher-led short activity	Teacher Guide	20 minutes
2	San Lorenzo River Field Trip OR CWC campus visit	Field Trip / Campus	1 hour
2	Teacher-led short activity	Teacher Guide	30 minutes
3	CWC Educator visit to classroom/school campus	Lesson #3 Guide	1 hour
3	Teacher-led short activity	Teacher Guide	30 minutes
4	CWC Educator visit to classroom/school campus	Lesson #4 Guide	1 hour

Week 1:	
CWC Educator Visit 1 hour Lesson #1 Guide	1. Access prior experience 2. Introduction to the San Lorenzo River and the program goals. 3. Pre-survey. 4. Investigate the problem of drought in Santa Cruz County. 5. Reflect on why drought is a problem for us and nature. 6. Examine how one of the solutions to reducing drought is to get water into the ground to store it. 7. Mindfulness Break 8. Reflection of activity 9. Preview teacher-led activity
Teacher-Led 20 minutes Teacher Guide	1. Mindfulness: mindful walking (optional) 2. Dig a hole and see what happens to the water (in Life Lab garden space or other landscape area) 3. Watch a video about groundwater.

Week 2:	
CWC Educator Visit (Field Trip) 1 hour + travel Lesson #2 Field Trip Guide OR CWC Educator Visit 1 hour Lesson #2 Campus Guide	1. Share out what students learned about groundwater. 2. Group reflection and brainstorm. 3. Explore: What surfaces allow water to go into the ground? 4. Word study: permeable vs impermeable 5. Identify what are the best surfaces for helping water enter the ground. 6. Mindfulness break (campus program only) 7. Group reflection and brainstorm 8. Reflection of activities 9. Review teacher-led activity (campus program only)
Teacher-Led 30 minutes Teacher Guide	1. Mindfulness: mindful breathing (optional) 2. Identify permeable and impermeable surfaces on the school campus. 3. Draw one permeable and one impermeable surface.

Week 3:	
CWC Educator Visit 30 minutes Lesson #3 Guide	1. Group brainstorm and reflection 2. Investigate examples of permeable surfaces solutions. 3. Mindfulness break 4. Prepare for the action project. 5. Reflection of activity. 6. Review teacher-led activity
Teacher-Led 30 minutes-1 hour Teacher Guide	1. Mindfulness: Yoga at the San Lorenzo River (optional) 2. Watch a video of kids making a difference. What have you already done to help out the school, class or your family? 3. Students share their action project plans with class.

Week 4:	
CWC Educator Visit 1 hour Lesson #4 Guide	1. Start or complete action projects. 2. Take a post-survey to share what they know. 3. Celebrate and get sworn in as Watershed Rangers.