Expand the lesson to include local resources, people, and nonprofit partners

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| **Example Targeted Audience:** 4th grade students  **Common Core Standard(s):**   * ELA Literacy   + R.I.4.3- Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text. * Mathematics   + 4.MD.A.1- Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. |
| Lesson Description: Keeping the water supply clean is everyone's responsibility for the *common good*. Learners practice core democratic values, explore literature through the book A River Ran Wild, follow the path of pollution in a river, focus on the concept of one million, and use the scientific method to examine the water cycle. They take action to address the issue of water pollution. |
| Anchor Text: *A River Ran Wild* |
| Supplemental Texts: 1) *The 10 Mightiest Rivers* 2) *Measuring Penny* |
| Length of Unit: 1-Semester  Teachers, take some time to reflect and consider current events. Issues relevant to the science curriculum. As Michiganders, the Great Lakes are a significant ecosystem and the recent focus on the Flint Water crisis provided a platform to discuss water quality and the relationship between watersheds and Michigan rivers and lakes:  **Learning to Give Lesson: “Rivers for the Common Good”**  Problem: Water quality in the Great Lakes and Michigan rivers   * Web-based map activities through ESRI further engage students in science, social studies and technology.   Teachers, these map web apps will allow students to examine landforms and land features. Students’ examination of land use will serve as a platform to discuss the impact of such use. Teachers, discuss the watersheds in the area (use map tool for watershed overlay).   * + - Visit esri.com > Click “Maps We Love!” > Select “Madagascar Conservation” map       * Explore   Teachers, if you want more information about using this resource contact ESRI to learn more about the map application in different content areas or if you find this resource useful, create an account!   * + - Select “Product” > Select “60 Day Free Trial” > Follow the prompts to create a free trial account |