



# Service-Learning and STEM

Service-learning and STEM have multiple connections and similarities. Those include:

- The processes for STEM and service-learning are very similar.
- STEM curriculum encourages an investigative model, the Engineering Design Process, that is like the IPARDE (Investigate, Prepare, Action, Reflection, Demonstration, and Evaluation) model used to complete a service-learning project.
- By simply involving students in a service-learning project that employs the IPARDE process, students in ANY content area are engaged in STEM.

The [Learning to Give Website](#) has curriculum that links to science, technology, engineering, and math. Educators can search the website by content area, specific topic or skill, and Indiana Academic Standards.

Other similarities that Service-learning and STEM share are:

- Both focus on real-world problems
- are guided by a process
- immerse students in hands-on inquiry and open-ended exploration
- utilize productive teamwork
- apply rigorous content that students are learning
- allow for multiple correct answers, trials, and reflection.

**The impact of service-learning is evident in student involvement in acts of philanthropy that develop more charitable attitudes, beliefs, and behaviors.**

**Students are also engaged in meaningful content, see themselves as leaders and change makers, practice civic involvement, and develop critical workplace and 21st century skills all while helping others.**

To learn more about the connections to between Service-learning and STEM check out these **Spotlight on Service-Learning articles** found [HERE](#) located on the [INSPIRE3 page](#).

- [Marching Into Spring with Service-Learning](#)
- [Now Serving Health and Wellness](#)
- [Service-Learning STEMS from the Heart](#)
- [Spring Into Environmental Action!](#)
- [Water, Water Everywhere](#)

This **PowerPoint presentation** with live links to related STEM resources is available on the [Digital Resources page](#) also located on the [INSPIRE3 page](#).

- Service Learning for Science and STEM Educators K-12- Virtual Workshop PPT
- Service Learning and Interdisciplinary STEM
- Science – STEM Grades K-5 – Virtual Learning with Service Learning
- Science – STEM Grades 6-12 – Virtual Learning with Service Learning



Visit the INSPIRE<sup>3</sup> page on the IASP website [HERE](#) and on the IMLEA website [here](#) for additional service-learning resources. ALL Spotlight on Service-Learning articles, written by Beth Smith, are archived on the [Spotlight on Service-Learning page](#). Snapshots of Service-Learning from Indiana schools can be found [here](#).

Explore the free resources on [Learning to Give](#) and [generationOn](#) **described below** to find service and service-learning lessons and resources, meaningful ways to serve others and give meaning to content, help students discover their passions, and help them develop empathy through incorporation of service-learning into the existing content.



Imagine a world where all youth are knowledgeable and equipped for lifelong engagement in philanthropy as givers of time, talent, and treasure for the common good. **The Learning to Give website has no cost Philanthropy Education/Service-Learning Lessons and Resources that Teach Giving and Civic Engagement through Academics.** LTG equips K-12 teachers with lessons and resources to educate students as philanthropists with knowledge, skills, and action to make a better world. Connect students' civic lives to academic learning and service-learning. **Over 1700+ K-12 teacher created lesson plans** searchable by keyword, issue area, subject, grade level, theme, calendar event and academic standards. Add service to your calendar by aligning philanthropy lessons and service-learning projects to monthly events. Browse the **Issue Area pages** with related lessons and toolkits. No cost Educator Mini-Courses provide online professional training in philanthropy education and service-learning. [www.learningtogive.org](http://www.learningtogive.org)



The mission of **generationOn** is to inspire, equip, and mobilize youth to take action that changes the world and themselves through service. Educators, parents, community organizations, and youth themselves will find **free** resources needed to ignite the power and potential of young people to become leaders and problem solvers, successful students and active community members through service. **The generationOn website has no cost resources** for many audiences that include age-appropriate **issue area project ideas, instructions, how-to guides for K-12 youth,** in addition to, service-learning resources, school and clubs programs, and online service and service-learning trackers for educators and teens. [www.generationOn.org](http://www.generationOn.org)