**Service-Learning Connect Science Energy and Design Institutes**

The Department is pleased to offer this opportunity in which school and/or district teams will receive training and support to adopt an interdisciplinary approach to instruction.  This opportunity will give teams tools to use service-learning to weave together instruction in science, social emotional learning, and other content areas, where appropriate. The goals of the effort are to support teachers' science instruction, boost students’ collaborative skills, and spark students’ interest in future civic work. The professional development will be facilitated by Harkins Consulting, and will start with fourth grade and then expand to design new units in grades 3 through 5.

**Components**

1. **Connect Science Energy -** Participants will learn about and implement the Connect Science Energy curricula, a 12-week project-based learning unit through which fourth graders explore the topics of energy and natural resources in depth and engage in science through service-learning. The program prepares students to be knowledgeable and engaged citizens who can collaborate with others to solve community problems.

* **CS Energy Institute: January 17th/18th AND January 31st/February 1st (location TBD)**

Participating districts will identify teams of 3-4 individuals (including 2-3 fourth grade teachers and a curriculum coordinator) to attend the 4-day CS Energy Institute.  **Note:** Ideally the teams of teachers are from the same school and responsible for teaching multiple content areas (either a fourth grade teacher who teaches all core subjects, or a fourth grade team that shares responsibility for teaching all subjects).

* **Follow-up (1-day, likely March, location TBD)**

Teams from the Institute will reconvene for additional training and to plan for implementation during spring 2020.

* **Implementing Connect Science Energy (Spring 2020)**

The trained fourth grade teachers will receive coaching support as they implement the Connect Science Energy unit during spring 2020.

* **Reflection/Celebration (Summer 2020, TBD)**

Teams will reconvene to reflect on their practice and share their successes.  In addition, we will gather input on plans for the Design Institute.

***Note:*** *Districts (Greenfield and Tewksbury) that participated in the Summer 2019 Connect Science Energy Institute (June 25-28) and Follow-Up (November 8) are not required to participate in the 2019-2020 CS Energy Institute (January 17/18 and January 31/February 1) OR the Follow-Up (March), although may send new teachers to those 5-days if desired.*

1. **Connect Science Design:** Curriculum coordinators will provide input and feedback on the Design Institute components and agenda. Then, teams will engage in professional development to design and plan units of study that use an interdisciplinary service-learning approach for new grades and topics, and that include explicit teaching related to social and emotional competencies.  These units will incorporate opportunities for deeper learning and build upon the district’s existing science curricular materials and/or other vetted materials.

* **Institute Planning and Feedback (2019-2020 School Year)**
* **Summer Design Institute (Summer 2020 – either late June or early August)**
* **Unit Planning – Summer/Fall 2020**
* **Fall 2020 Feedback (1-day)**
* **Implementing New Units (Winter/Spring 2020-2021)**
* **Reflection/Celebration (Spring/Summer 2021)**

By the end of the Design Institute, participants will have developed (with existing vetted science materials) one or more units that use service-learning to integrate SEL, science and civics education.