



Curriculum Project Authorization Form
United States Code Title 42, Sections 1869a and 1869b – National Science Foundation

In an effort to meet its obligation to the National Science Foundation (NSF) under the United States Code Title 42, Sections 1869a and 1869b, the Concord Consortium (CC) is required to obtain authorization from an administrator or its designee for their school(s) participation in CC's curriculum project. More details about this NSF requirement are on the back of this form.

CC would like to conduct the following NSF-funded curriculum project. The NSF-funded Sensing Science project (grant #DRL-1222892) is testing the hypothesis that visualizations, computer models, and student reflection integrated into creative exploration can make learning about temperature and heat accessible to early elementary students.

- The project is offering a three-week interactive online professional development course to help teachers in grades K-2 to introduce concepts of temperature and heat transfer to their students using our game-like Land of Bump software.
- The online course requires approximately 10 hours of work outside of the classroom and one 45-55 minute class period with students who will use the Land of Bump software. This software (<http://lob.concord.org>) is free and runs on desktops or tablets inside a web browser. It can be used with children in many different types of settings.
- Sensing Science has worked with K-2 students in small research groups and with teachers within their classrooms in Massachusetts. You can read more about our initial work (<http://concord.org/publications/newsletter/2014-spring/sensing-science>) or more specifically work with the Land of Bump software (<http://concord.org/publications/newsletter/2015-fall/land-of-bump>).
- If you have any questions, please contact Principal Investigator Carolyn Staudt (978-808-3697).

Name of teacher to participate in online course (March 1-22, 2016):

Name of school and district:

I authorize the Concord Consortium to undertake the proposed project. Further, I represent that under the rules and regulations of the above School District, I have the authority to provide this authorization to the Concord Consortium.

Signature, Title, and Date:

In accordance with sections 1869a and 1869b of title 42 of the United States Code, the awardee will do the following, as appropriate:

1. Obtain from the school board or comparable authority responsible for the schools considering participation in the project, written approval prior to involvement of pre-college students in pre-college education research and development, pilot-testing, evaluation, and revision of experimental and innovative pre-college curriculum.
2. Include in every publication, testing, or distribution agreement involving instructional materials developed under this grant (including, but not limited to, teachers' manuals, textbooks, films, tapes, or other supplementary material) a requirement that such material be made available within the school district using it for inspection by parents or guardians of children engaged in educational programs or projects using such material of that school district.