

Amy has 18 years of experience in education including nine years of teaching public high school, six years of training beginning teachers at an educational non-profit, and three years as a teacher and the STEM Coordinator at the Woodstock Day School. She has a Masters in Applied Physics and Applied Mathematics. She doesn't believe STEM and social justice are mutually exclusive and combines the two by using case studies, like the use of elements that come from conflict minerals in cell phones and the effects of their mining on countries in Africa.

Robin has been the Librarian at the Woodstock Day School for 22 years and is the faculty advisor of both the Middle and Upper School LGBTQ+ clubs. She has a Masters of Science in Informational Science with a concentration in School Library Media. Robin received a grant to do a diversity, social justice and cultural competency audit of the book collection in the WDS library and has been working to diversify the collection.

Amy and Robin served as the captains for WDS' Drawdown EcoChallenge team. The team placed first place in the world this year.

Multicultural Math and Science Curriculum Teacher Institute

Date: July 8th - 12th, 2019

Time: 9 am - 3 pm

Location: Woodstock Day School, Science and Nature Center

For teachers of math and/or science of all grade levels. This institute is free of charge and participants are able to receive in-service credits for their time.

Facilitators:

Amy Shapiro, STEM Coordinator, MS and US Mathematics and Science Teacher

Robin Shepley-Shornstein, Librarian and Teacher

Institute Description: During the Multicultural Math & Science Curriculum Teacher Institute, teachers will work together to develop math and science units centered around issues of social justice, such as the links between climate change and educating girls. Participants will work together as Critical Friends to provide feedback on the units they develop, and collaborate to increase the effectiveness of their work.

Goals:

The overall goals of this institute are to:

1. Develop a conceptual understanding of the ways in which multicultural curriculum can engage both students and teachers and make the experience in a math or science classroom more enriching for all students.
2. Provide an ideal framework for what multicultural curriculum looks like and how to start the work to change current school cultures.
3. Analyze how climate change and issues of social justice are interrelated.
4. Experience working collaboratively with other teachers using Critical Friends protocols.

Outcomes:

As a result of this institute, participants will be able to:

1. Describe two ways in which a multicultural curriculum will benefit all youth, not only those outside of the dominant culture.

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2. Write and revise at least one unit based in a social justice issue that can be used in their classroom next year.
3. Experience working collaboratively with other teachers using a Critical Friends framework.

Schedule for the Week:

Day 1: Experience a learning unit on science content and the connections between climate change and social justice. Practice workshopping teacher work through the use of Critical Friends protocols.

Day 2: Review a variety of resources on the contribution of women and people of color to the development of scientific and mathematical thought.

Days 3 and 4: Work with a group of teachers of students of a similar age group to create a science or math unit based on an issue of social justice.

Day 5: Share your unit with the other participants and receive feedback using Critical Friends protocols in order to revise your work.

Enrollment is limited.

Questions?

Please contact:

Amy Shapiro, STEM Coordinator of the Woodstock Day School
ashapiro@woodstockdayschool.org

Registration Information:

This institute is free of charge. Participants will receive in-service credits through the Kingston or Saugerties School Districts.

In order to participate in this institute, please email ashapiro@woodstockdayschool.org expressing your interest. Your email should include the following information:

- Your name, who and what you teach.
- Why you want to attend this institute.
- What expertise you have that you could share with institute participants.