



Stephanie Burke
West Running Brook Middle School, Derry

Stephanie Burke has been an educator for nine years and has taught eighth grade science at West Running Brook Middle School for the past six. Passion for her subject and students has led to implementing an innovative 21st century approach to teaching; including a personalized blending learning environment that uses the flipped classroom model. Each student works at their own pace, they do not have to wait for direct instruction. Instead they watch videos made by Stephanie for homework and then apply their knowledge during class through inquiry, hands on activities, and projects. This approach allows students to receive daily feedback and coaching.

For both the PAEMST video and written component, Stephanie focused on an astronomy lesson that included the relationship of the Sun, Moon, and Earth and how their movement affects Earth specifically with eclipses. Students used three different kinds of models to recreate both solar and lunar eclipses. Instructional strategies showcased in the lesson included goal setting, opportunities for feedback, comparing/contrasting, cooperative learning, and a hands on activity.

Stephanie has also been a presenter at the Christa McAuliffe Technology Conference, a guest on NH public radio, and has been asked to present to other school districts regarding the flipped classroom. She also was a co-winner of a \$20,000 game changer grant from the 21st Century committee of Derry part of which included a set of chrome books for her classroom.

She is a member of the NH Science Teachers Association (NHSTA) and the National Science Teacher's Association (NSTA). Outside of work, Stephanie owns a small horse farm in Deerfield, New Hampshire with her husband.

Stephanie has a B.S. in pre-veterinary medicine from the University of New Hampshire and M.Ed. from New England College. She is certified in elementary education and special education.