



Yale-New Haven  
Teachers Institute®

Curriculum Units by Fellows of the Yale-New Haven Teachers Institute  
2021 Volume IV: The Earth's Greenhouse and Global Warming

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## **Making mathematical sense of Global Warming 2**

Guide for Curriculum Unit 21.04.03  
by Stacy Haines

This unit is designed to help middle school students develop an understanding of rates, ratios, proportions, percents; as well as proportional relationships, unit rates, slope, linear equations, and exponential equations; and to understand how to use their mathematical knowledge to interpret and understand global warming. Students will use math modeling to make predictions about the future of global warming.

The unit is written with the intent of investigating global warming, and then teaching math topics to help students analyze what they are learning. There is some incidental cross-curricular teaching of NGSS standards.

(Developed for Math, grades 7-8, and Pre-Algebra, grade 8; recommended for Math, grades 6-7, and Pre-Algebra and Algebra, grade 8)

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