

GRADES
6-12

SUSTAINABLE FUTURES

Master Class Video

EDUCATOR GUIDE

OVERVIEW

Using outside resources in your classroom can be a powerful instructional strategy. As you know, videos, virtual field trips, and online interactives can work to engage students in your content and add real-world context to your lessons. Presenting information to students in different modalities can allow students with different learning styles to find success in your classroom. Offering access to outside resources to enhance your curriculum can also empower your students to take control of their own learning. As society becomes increasingly digital, it is imperative to not only familiarize students with technological resources, but also to instruct them on how to critically analyze and engage with these tools.

In this Master Class Video, you will hear from two classroom educators leveraging outside resources available through programs like [Sustainable Futures](#), and using them to engage and inspire their students.

Note: *The Master Class Video, when coupled with the discussion questions in this educator guide, can be used as a professional learning activity independently or with a group of educators interested in implementing creative use of outside resources into their classroom.*

TRANE TECHNOLOGIES RESOURCES

In addition to the Master Class Video, global climate innovator Trane Technologies offers these resources through its [Sustainable Futures](#) program:

Virtual Field Trip

The Sustainable Futures Virtual Field Trip developed with Discovery Education provides students with an up-close look at the countless ways sustainable concepts and innovations are used in everyday life, like individual behaviors, exciting green career pathways, and history-making global initiatives. This immersive virtual journey empowers students to pair big goals with bold action as they get involved in creating the future they want to see, starting in their own communities. Along the way, students will gain new perspectives from experts at Trane Technologies, a youth sustainability advocate, and more.

Volunteer Ambassadors

Trane Technologies employee volunteers are prepared to help bring real-world sustainability goals and careers to your classroom. They have partnered with Discovery Education to present the robust suite of Sustainable Futures resources to inspire students to learn, explore, innovate, and lead us to a healthier world. Employee volunteers can visit your classroom virtually or present in-person lessons.

Video Topic Series

Sustainability: The Human Factor is a three-part Video Topic Series that showcases the human imagination, ingenuity, and passion behind the science of sustainability. Each video features a young changemaker who is sparking sustainable action at the local level, along with professional insights from a Trane Technologies thought leader working to innovate more sustainable ways of life. There is an accompanying activity for each video to help engage students and inspire them to become change agents in their own communities.

Career Profiles

Take students inside the world of Trane Technologies, where employees across various fields work to create comfortable, energy-efficient indoor environments. Check out a series of interactive career profiles featuring videos and companion student activations.

Digital Lesson Bundles

These bundles include digital presentations and educator guides with classroom resources and instructional suggestions that span several class sessions. You can inspire students to investigate Indoor Environmental Quality (IEQ) in their own community or research the 21st Century Skills known as the 4Cs (critical thinking, communication, collaboration, and creativity) while also practicing them.

Family Resources

These classroom activities feature corresponding family activities that will work to bring the lessons to life and help students engage with, discuss, and ideate solutions to real-world sustainability issues.

OBJECTIVES:

Educators will:

- review available [Sustainable Futures](#) resources.
- consider their own preferences concerning the use of outside resources in the classroom.
- analyze their current use of resources.
- create plans to apply or update their instructional strategies in response to the use of outside resources in their classrooms.

MATERIALS

- Computer (with a projector if conducting with a group)
- Paper
- Writing utensil
- **Would You Rather?** handout, one per educator
- **Resource Use Analysis** handout, one per educator
- **Outside Resources Plan** handout, one per educator

PROFESSIONAL LEARNING AROUND USING OUTSIDE RESOURCES

- Elements to Explore:**
 - Before beginning professional discussions, explore the available Sustainable Futures resources if you have not already. Take note of those that seem most promising for your classroom.
 - Note or discuss how the use of outside resources is currently viewed in your school. Is it encouraged? Discouraged? Ignored? Supported?
 - What is the biggest concern regarding using outside resources in the classroom?
- Pre-Activity: Would You Rather?**—As you begin to think about the use of outside resources, consider the following “Would You Rather?” questions and note or discuss your current feelings or thoughts on each element. You can use the **Would You Rather?** handout to record your responses.
 - Would you rather stick to the provided curriculum and its included resources or search for related outside resources to incorporate into your lessons?
 - Would you rather control the students’ engagement with outside resources or allow them to take control of the resources they experience?
 - Would you rather use outside resources to introduce new content, to teach/review/engage with content, or to assess content?
- Watch the Video:** This Master Class Video will provide you with insight from experienced educators on how they use outside resources in the classroom and the benefits they see as a result. As you watch the video, keep track of the outside resources you already use in your classroom as well as any you would like to learn more about or try implementing yourself. You can use the **Resource Use Analysis** handout to take notes.
- Post-Activity:** Hopefully, you have been inspired to creatively use outside resources in your classroom. Use the **Outside Resources Plan** handout to help you systematically think through the different ways you want to implement the use of outside resources and how you will prepare your students to ensure success!
- Discussion Questions:**
 - Do you feel more comfortable with the use of outside resources in your instruction? Is there any further information or training that you feel you need?
 - What might hold you back from incorporating more outside resources into your classroom?
 - Which student engagement strategies have you found traditionally effective in your classroom? Are they compatible with the use of outside resources? What might you need to change?

Question	Feelings, Thoughts, Response
1	
2	
3	



Outside Resources I Already Use	Outside Resources I Would Like to Learn More About or Try Using



Outside Resources Plan

STUDENT HANDOUT

Resource / Resource Type	Purpose for Using the Resource	What Do Students Need to Know Before Using Resource	How Will Students Engage with Resource