

Educator Resources 2022

Dear educators, please have each of your students fill out the Building Trades Week post-survey at the end of the week! Data collected from these surveys will be made available to all participating educators!

Introduce Students to Building Trades!

What are some additional ways to look at the Building Trades sector? Consider the following topics and ideas to help share this industry with your students!

- **Research the history** of various building trades and how skills, materials, and technology have developed through the years.
- **Research a job** and discuss the education, training, and related career pathways.
- **Research and report** on the different types of building trades (electricians, carpenters, architects, etc.)
- **Science/Research & Development**
 - Sustainability & Green Building - how has building trades evolved to consider the environmental needs of a community?
 - Construction Materials – why are certain materials used over others?
 - Environmental Influence on Architectural Design – how do resources such as light, water, and energy influence the architectural design of building?
- **Art/Design**
 - Building Design – how and why is a building designed the way it is? What are the design needs of buildings in different environments or that serve different uses?
 - Building Signage – how does signage play a role on a building’s design?
- **Safety in Building Trades**
 - Evolution of OSHA
 - What steps are taken on a job site to ensure the safety of trades professionals?
- **Discuss** the different businesses that you were introduced to, which ones interested you? Why?
- What have you **learned** from Building Trades Week 2021?

Website to Learn More

South Bend Regional Chamber of Commerce - <https://www.sbrchamber.com/>

Greater Niles Chamber of Commerce - <https://www.greaternileschamber.com/index.php>

Built to Succeed - <https://www.builttosucceed.org/>

North America's Building Trades Unions - <https://nabtu.org/>

Build Your Future - <https://www.byf.org/>

Construct-Ed - <https://www.construct-ed.com/advantages-of-construction/>

Construct Your Future - <https://www.constructyourfuture.com/>

National Association of Women in Construction - <https://www.nawic.org/nawic/default.asp>

Women in Skilled Trades - <https://www.wistmichigan.org/>

Indiana's Building Trades Unions - <http://www.isbctc.org/>

Michigan Construction Careers - <https://www.constructioncareersmi.com/>

Additional Tools for Success

Built to Succeed, career exploration pages - <https://www.builttosucceed.org/>

Exploring, mentorship opportunities for students - <https://www.exploring.org/skilled-trades/>

HomeAdvisor, classroom project ideas - <https://www.homeadvisor.com/r/educators-guide-to-building-and-construction/>

Discover Engineering, engineering exploration workshop - <http://www.discover.org/volunteers-educators/counselor/inspire-innovation-discover-engineering-careers>

Class Project Ideas

Partner with a local business to develop materials for attracting recent graduates.

Consider public works in your community. Examine redevelopment opportunities in your community and create a plan to revitalize a local space.

Develop a fun interactive game to introduce K – 4 students to the building trades.

Engineer a dam. Students build a model sized dam with various materials and designs, then test their designs in a controlled environment.

Survey your peers about their building trades knowledge. Based on survey results, do you have recommendations on how to help introduce students to different building trades?

What materials build our world? Experiment, as a class, with various construction materials to see how the environment impacts different types of building materials and explore how this impacts the way we construct our communities.

Find five 'cool' facts about building trades and create a campaign to inform K12 students.