**Risk Education: Module 1 – What is Risk?**

*Objectives*

* Introduce students to various terms related to risk, including hazard, vulnerability, exposure, and disaster
* Provide examples of risk in everyday life and examples that are specific to natural hazards
* Introduce the ideas associated with risk analysis, evaluation, and mitigation

*Resources*

* PowerPoint Lecture Presentation: “What is Risk?”
  + Speaker notes contain descriptions of concepts, graphics, and/or examples that are presented on the slides
* Video: “Hazard, Risk, & Safety – Understanding Risk Assessment, Management and Perception”
  + First few minutes are helpful for understanding terms related to the module, the second half of the video is focused on risk perception and mitigation
* Video: “Risk and How to use a Risk Matrix”
  + Talks about general risk, not necessarily related to hazards
  + Uses a risk matrix and various illustrations to demonstrate/rank different risky scenarios

*Discussion Topics and Activities*

* Ask the class to describe risk in their own words
* Ask the class what risks they/others face each day
* Ask the class what they believe to be the most likely causes of death in the US
  + Answer: <https://www.nytimes.com/2019/01/14/us/opioids-car-crash-guns.html>

*Potential Courses Where This Module Could be Utilized*

* Principles of Engineering Technology
* STEM I: Foundation
* STEM Elective: Introduction to Geographic Information Systems (GIS)
* Fundamentals of Construction

*Applicable Tennessee Education Standards Addressed*

* Math
  + Reason abstractly and quantitatively
  + Attend to precision
  + Make sense of problems and persevere in solving them
* Science
  + Asking questions and defining problems
  + Obtaining, evaluating, and communicating information
  + Using mathematics and computational thinking
* Social Studies
  + Develop geographic awareness