**AIA K-12 Lesson Guides**

<https://www.aia.org/pages/6319595-k-12-problem-based-lesson-guides>

**Activity Sheet**

[Holding on Through the Hurricane Activity Sheet >](http://content.aia.org/sites/default/files/2020-09/Activity-sheets_Middle-High_Holding-through-hurricane_0.pdf)

**Background**

As a member of the Architectural Safety Assessment Program (ASAP), you have been deployed to the East Coast where powerful hurricanes have ravaged existing homes. Your task is to create a new housing development that is better prepared to withstand future hurricane activity. You will demonstrate your understanding of recommended building strategies and materials with the resilience to withstand a hurricane.

**Problem**

You are a member of the Architectural Safety Assessment Program team. You have been sent to the East Coast where there have been a series of devastating hurricanes in the past few years. Your team has been tasked with designing a housing development that is built to withstand future hurricanes by determining appropriate building strategies and materials. You will represent a model and verbal explanation to the City Council at its next meeting in three weeks. Be prepared!



WILLIAMS TERRACE (LEARN MORE ABOUT THIS PROJECT IN THE LEARNING RESOURCES TAB)

**Learning Resources**

* [Disaster Assistance Handbook >](https://www.aia.org/resources/71636-disaster-assistance-handbook)
* [How building science and research can help avert disaster >](https://www.aia.org/articles/185061-how-building-science-and-research-can-help-)
* [Williams Terrace >](https://www.aia.org/showcases/6164331-williams-terrace)

**NOAA**

* [National Hurricane Center >](https://www.nhc.noaa.gov/)

**NASA**

* [Hurricanes and Tropical Storms >](https://www.nasa.gov/mission_pages/hurricanes/main/index.html)

**Geophysical Fluid Dynamics Laboratory (GFDL)**

* [Global Warming and Hurricanes >](https://www.gfdl.noaa.gov/global-warming-and-hurricanes/)

**National Geographic**

* [The Anatomy of a Hurricane >](http://www.tcpalmextras.com/tcpalm_hosted/jfpdf/HG11%20tracking%20chart.pdf)

**New Home Source**

* [How to Build a Hurricane-Resistant Home >](https://www.newhomesource.com/learn/how-to-build-a-hurricane-resistant-home/)

**New York Times**

* [Among Ruins of Mexico Beach Stands One House, Built 'for the Big One'" >](https://www.nytimes.com/2018/10/14/us/hurricane-michael-florida-mexico-beach-house.html)

**Building Science Corporation**

* [Flood and Hurricane Resistant Buildings >](https://www.buildingscience.com/documents/digests/bsd-111-flood-and-hurricane-resistant-buildings)

**Hands-On**

* [Hurricane Simulation Activity >](https://scijinks.gov/hurricane-simulation/)
* [Hurricane House Challenge >](https://web.uri.edu/smile/files/Hurricane-House.pdf)
* [Building for Hurricanes Design Challenge >](https://gpm.nasa.gov/education/sites/default/files/interactive_files3/Hurricane%20Towers%20TG.pdf)
* [Storm Surge Activity >](https://secoora.org/surge_of_the_storm/)

**Video Resources**

* [AIA Film Challenge >](https://aiafilmchallenge.org/)