



*flooding problem in Houston?*

4) **Answer questions you've found in your research. Do some more research on what you don't know or need more information.** Example: *What are sponge city or softscape solutions to flooding?*

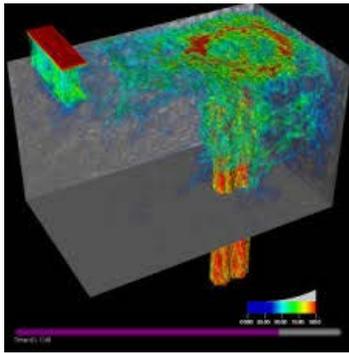
To narrow down the focus of your topic, follow the following three steps:

1) **Write down additional specifics about your topic.** Example: softscaping solutions, which ones narrow our focus?

5) **Turn your topic into a sentence that is a statement.** Example: We plan to solve flooding in Houston by using gardens in front of personal residences entrances.

6) **Now add "fine" focus to your statement by making a statement that can refer back to your research.** Example: We plan to solve flooding in Houston by using small perimeter gardens sloped away from personal residences entrances. We plan to use data from Hurricane Harvey and Rita to plot the areas most often flooded in Hurricane rains. We will validate information with elevation data. We plan to show the affect of sloped house perimeter gardens and water pooling as compared to hardscaped home entrances.

**What is a Computer Model?** <https://www.sciencenewsforstudents.org/article/explainer-what-computer-model>



A program that runs on a computer that creates a model, or simulation, of a real-world feature, phenomenon or event.

- Create a hypothesis about your topic.
  - Eliminate unnecessary parts; start with two variables.
  - Create “what if” scenarios in your model.
  - Explain, control, predict, visualize events on the basis of research and observations
- Add more features or variables or test a larger hypothesis.

**Free Online Course from the Park City Math Institute: Geometry Transformed!**

**Dates:** November 7 - December 5

**Description:** A five-week course for teachers who want to deepen their understanding of transformations in plane geometry and who seek examples of how rigid motions and dilations and their combinations can be presented in the classroom.

For more information, please visit <http://mathforum.org/pcmi/outreach/#two>. Please contact Gabe Rosenberg at [pcmigeom@gmail.com](mailto:pcmigeom@gmail.com) with any questions.

We hope some of this information helps you move forward. Remember if you have any questions, please contact [consult1718@supercomputingchallenge.org](mailto:consult1718@supercomputingchallenge.org)

“Computingly” yours,  
Celia, David, Karen, Josephine and Patty