Flooding Solutions

Flood:ED
Model Planning
Worksheet

Brainstorming

Take a moment to think about where you see water collect in your schoolyard, especially after it rains, or after the snow melts. Where are those areas?

Is this a problem in those areas? Why or why not?

What do you think is stopping the water in those areas from percolating into the soil, or moving to a better area to collect?

2D Model

What area are you planning on modelling?

_____

_____

What does the area look like during flooding? Note any affected structures and areas, permeable/semi-permeable/impermeable surfaces, and nature.

What do you hope the area will look like with your solution in place? Indicate where the water will go. Note any affected structures and areas, permeable/semi-permeable/impermeable surfaces, and nature.

Why do you think your solution will work?

3D Model Planning Sheet

What materials will you use? Consider recycled and reusable materials!

Will you be able to use your model more than once? Can you add you "flooding solution" to the "before" model without damaging it, or do you need to build a "before" and "after" model of the same area?

What order do you need to build things?

How will you know if your solution works?

Reflection

Did your solution seem like it worked? Why or why not?

Was your model accurately representing the same conditions at the site you picked?

What worked well with your model?

What would you want to change for next time?

Is it possible for your solution to be implemented in real life? What would need to happen?