

Feaster Charter School

Lesson Plan in Green Infrastructure

2 Classes from 8:50 – 9:30 (40 min) and 9:35 – 10:20 (45 min)

10 min	<p>Today we have a project for you to work on. Our work is going to focus on water – what happens when it rains, where the water goes (or stays) and why. And what potential impacts that can cause. We have a map of the school and we have used some tools to explore what happens here when it rains.</p> <p>(conversation with the kids about their own observations – mark up dry erase board?)</p> <p>This map shows us what water wants to do, where it wants to go, based on topography</p> <p>(define – do they know that word). When rain comes down, it starts to build up and accumulate in areas that are lower (i.e. water flows downhill).</p> <p>(explain the red – stop to green – go colors)</p> <p>As the water moves, it also is absorbed (or not) by the land underneath. Some materials can absorb a lot of water, some are almost completely unable to allow water through. We call this impervious. The school has a lot of different materials present.</p> <p>(talk about landcover types and which ones are more impervious, maybe even let the kids guess – including green infrastructure and options which are not currently there...)</p> <p>We've identified potential areas of the map where water is known to flow or pool during a rainfall. Now it is your turn to work on some potential ideas to prevent that.</p>
10 – 15 min	(split into groups. 4 to 5 per iPad. They can draw on the pictures with potential ideas. There are aerials without flow path and aerials with flow path.)
10 min	(Each group can work on the model in turn – input their ideas. The first group ready at 10 min mark can come up first. And so on, in turn. Each will be able to see results and make changes if they want to do more. We can save their final map and results and air drop to their iPad.)
5 min	(groups share their maps and results.)