

Name _____

Date _____

Runoff Simulation

Before you begin... Which land cover do you think will have the MOST runoff? Circle your prediction!



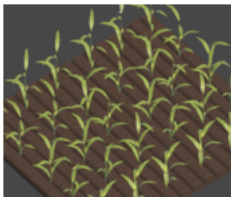
Developed-
Open



Developed-
Low



Grassland



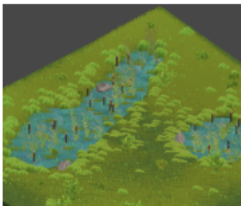
Crops



Developed-
Med



Forest



Wetlands



Developed-
High



Pasture/Hay

Mission 1 – Can you build a watershed with the LEAST runoff?

Data		Why did this combination create so little runoff?
Rain fall _____ cm	Runoff _____ cm	
Land cover _____	Infiltration _____ cm	
	Evapotranspiration _____ cm	

Name _____

Date _____

Soil type _____		
--------------------	--	--

Mission 2 - Can you make the MOST runoff possible?

Data		Why did this combination create so much runoff?
Rain fall _____ cm	Runoff _____ cm	
Land cover _____	Infiltration _____ cm	
Soil type _____	Evapotranspiration _____ cm	

Mission 3 - A huge storm is coming. Which land cover and soil type would you want around your school?

Data		Why is this best for the school?
Rain fall _____ cm	Runoff _____ cm	
Land cover _____	Infiltration _____ cm	
Soil type _____	Evapotranspiration _____ cm	

How will your choices help your downstream watershed neighbors?