Stormwater Runoff Calculation

volume of runoff =
surface area x runoff coefficient x rainfall depth

Rainfall

Surface type	Runoff coefficient	Surface area ft²	Volume of runoff ft ³	Gallons of Runoff	Percentage of Runoff %
Pavement/ rooftop	.98				
Turfgrass: flat	.2				
Turfgrass: sloped	.3				
Gravel/ baseball field	.4				
Playground	.35				
Tree cover	.15				

Total gallons of runoff	
Bathtubs of runoff (divide gallons by 40)	
Reflection questions	

- 1. Which surface sheds the most water? Which surface moves water the fastest?
- 2. How do think pavement and turf grass affect water in a nearby lake or wetland?
- 3. If you were to design a schoolyard, which surface types would you use more of? Which would you use less of?
- 4. What would you tell visitors to your school if they wanted help keep water clean?