Sizing a Rain Garden Worksheet*

To size a rain garden, you will need to measure your drainage area, determine the percent slope of your lawn, and identify your soil type. This worksheet will walk you through these steps. Use Earth Partnership for Schools activities, "Identifying Your Soil for Rain Gardens" and "Measuring Slope for Rain Gardens" to determine your soil type and percent slope.

1.	Drainage Area: Measure your drainage area.						
	a.	Roof area:	feet	х	_feet =		square feet
	b.	Lawn area:	feet	x	feet =		square feet
	C.	Paved surfaces:	f	eet X	feet	=	square feet
	d.	Total drainage area	:				square feet
2.	Rain Garden Depth: Find the slope of your rain garden site to determine how deep dig your garden.						e how deep to
	b.	Less than a 4% slop 5 - 7% slope = 6 - 8 - 12% slope = 8	7 inch de	eep rain gard	len	า	
							_ inches deep
3.	Soil Ty	/pe: Determine your	soil type.				
	a.	Soil Type: (Please o	ircle)	sand	silt (loa	m)	clay
4.		actor: Use the appro	-		find your so	oil factor. The	soil factor is

Table #1: Rain gardens up to 30 feet from a downspout.

	3 – 5 inches deep	6 -7 inches deep	8 inches deep
Sandy soil	0.19	0.15	0.08
Silt/loam soil	0.34	0.25	0.16
Clayey soil	0.43	0.32	0.20

Table #2: Rain gardens more than 30 feet from the downspout.

Sandy soil	.03
Silt/loam soil	.06 .
Clayey soil	.20

a. Soil factor:

5.	Rain Garden Size: Multiply total drainage area (#1) by the soil factor	r (#4).
	(sq ft.) total drainage area X soil factor = (sq ft.)	sq ft.) rain garden
	*Based on Rain Gardens: A how-to manual for homeowners	