**Media, Soil, and Hydroponics Test Review 5.00**

Turn in on the day of the test for 5 points on your test.

**Basic Info on Soil and Media**

1. Once living material.
	1. Vermiculite- inorganic, gold, holds water
	2. Perlite- inorganic, white, drainage, volcanic rock
	3. Bark- organic, drainage, weight in pots
	4. Peat moss- organic, holds water
	5. Moss- organic, holds water
	6. Compost- organic, adds to structure of soil
	7. Manure- organic, adds to structure of soil
2. Never living
	1. Vermiculite
	2. Perlite
3. Acidity and alkalinity, 1-14 (7 neutral)
4. acid
5. neutral
6. it locks it up, makes it unavailable
7. cover the soil with material (organic or inorganic)
8. they allow the seeds to fall down in the pores and get lost or covered too deeply

**Soil**

1. horizons
	1. O- organic, humus
	2. A-topsoil, rich in organic
	3. B-subsoil, somewhat leached
	4. C- bedrock
	5. R- parent material, impermeable
2. granular
3. the way it feels
4. prismatic, massive, or platy
5. loose
	1. Clayey- holds lots of water
	2. Loamy- equal parts of sand, silt, and clay- BEST
	3. Sandy- very little WHC
6. Use soil sample and wet, squeeze into a ribbon, feel texture
7. Soil triangle uses percentages (from soil distribution) to determine texture
8. 50% solid, 25% water, 25% air
9. How water and air move through soil and are held
10. Better- add organic matter, rotate with fibrous crops, don’t till… worse- makes lots of trips in garden, work when it is wet, compact soil
11. Small-clay, large-sand
12. loam
13. permeability

**Soil Test**

1. see what nutrients you have in soil
2. NCDA and CS, extension agent
3. pint
4. do not include in overall sample
5. shovel, bucket, sample sheet, record of where taken, sample sheet from NCDA
6. lawn 4”, other 6”
7. spring
8. keep a record
9. application rate for correction
10. ppm (parts per million)
11. clay
12. extension agent

**Soil Triangle**

*See backside of sheet.*

**pH**

1. acidity and alkalinity
2. 5.5-7
3. Acidic= blue, alkaline= pink
4. Add limestone
5. sulfur
6. 4
7. pH must be correct or nutrients cannot be absorbed

**Soil Textural Triangle**



1. Clay loam
2. clay
3. Sandy loam