

## Required Materials for PHC Plant Propagation

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#	SIZE	RECOMMENDED (Use if possible)	PURPOSE	ALTERNATIVE
<b><u>Propagation Exercise #1-1- Select, Collect, and Store Hardwood Cuttings</u></b>				
1	Tbsp	Bleach	Disinfect pruning tools	Rubbing Alcohol
2	Tbsp	StimRoot #3	Rooting Hormone for planting	*Optional, to be used if planting
<b><u>Propagation Exercise #1-2 - Herbaceous Stem Cuttings</u></b>				
4	stem cuttings	violet, begonia, herbs	Herbaceous stem cuttings	non-woody materials
4	small (2.5-4" pots)	plastic pots or 6-pack	Planting stem cuttings	Any small pot/cup with drainage
1	Approx. 1 L soil	Premium soil mix	Media for planting cuttings	Any premium soil mix
<b><u>Propagation Exercise #1-3- Runners/Stolons</u></b>				
4	small	spider or strawberry	Propagation by runners/stolons	Piggyback plant, begonia, others
4	small (2.5-4" pots)	plastic pots	Planting runners/stolons	Any small pot/cup with drainage
1	Approx. 1 L soil	Germination soil mix	Media for planting runners	Any premium soil mix
<b><u>Propagation Exercise #2-1 - Standard Seed Viability Testing</u></b>				
1	package (40+)	Cabbage Seeds	Seed viability test	fast-germinating seeds (lettuce, radishes)
4	shallow dish	Petri Dishes with lids	seed viability test container	saucer, cellophane, tape or rubber band
4	sheets	Paper Towel	keep seeds moist	Coffee filter, filter paper
4	litres	Distilled water	No impurities to affect seeds	rain water or non-chlorinated water
<b><u>Propagation Exercise #2-2 - Sow and Germinate Seeds</u></b>				
2	package (100+)	Marigold Seeds	Germinate, transplant, grow	Easy to grow and transplant seeds
1	Approx. 1 L soil	Germination Soil Mix	media to germinate marigolds	Seed starter or premium soil mix
1	20 row	seeding tray with cover	seed marigolds, maintain moisture	seedling starter tray with lid
<b><u>Propagation Exercise #2-3 - Transplant and Maintain Seedlings</u></b>				
10	cell packs 10-06	6 cells/pack	10 6-packs for marigold transplants	Small pots, but 6-packs work best
1	10" x 20"	Flat plastic tray	Plastic tray for holding pots/trays	Any waterproof tray
1	8" or so	Dibble stick	for making holes in soil	Pencil, chopstick
1	Approx. 1 L soil	Transplant soil mix	Media to transplant marigolds	Seed starter or premium soil mix
2	Tablespoons	10-52-10 Fertilizer	Plant starter fertilizer	Any plant starter fertilizer
<b><u>Propagation Exercise #3-1 - Seed Collection from Fleshy Fruit</u></b>				
4	Apr. 1/4 cup each	Fleshy fruit with seeds	Apple, hawthorn, cotoneaster	any collected/purchased fruit with seeds
4	small jars	Enclosable containers	for containing each type of fruit	Any enclosable container or ziploc bag
		sieves/screen/filter	to separate out seed from flesh	
		Tweezers, probe, knife	to separate out seed from flesh	
<b><u>Propagation Exercise #3-2 - Seed Collection from Dry Fruit</u></b>				
4	Apr. 1/4 cup each	Dry fruit	wheat, poppy, sunflower	any collected/purchased fruit with seeds
4	small jars	Enclosable containers	for containing each type of fruit	Any enclosable container or ziploc bag

*The use of a warming mat and moisture meter is also highly recommended.*

*You are also responsible for supplying your own personal protective equipment (PPE) such as, disposable rubber gloves, etc. Review Safety Data Sheets of hazardous products before proceeding in any labs.*