

Week-02-L-06

Value Engineering Agricultural Plan

Function Phase

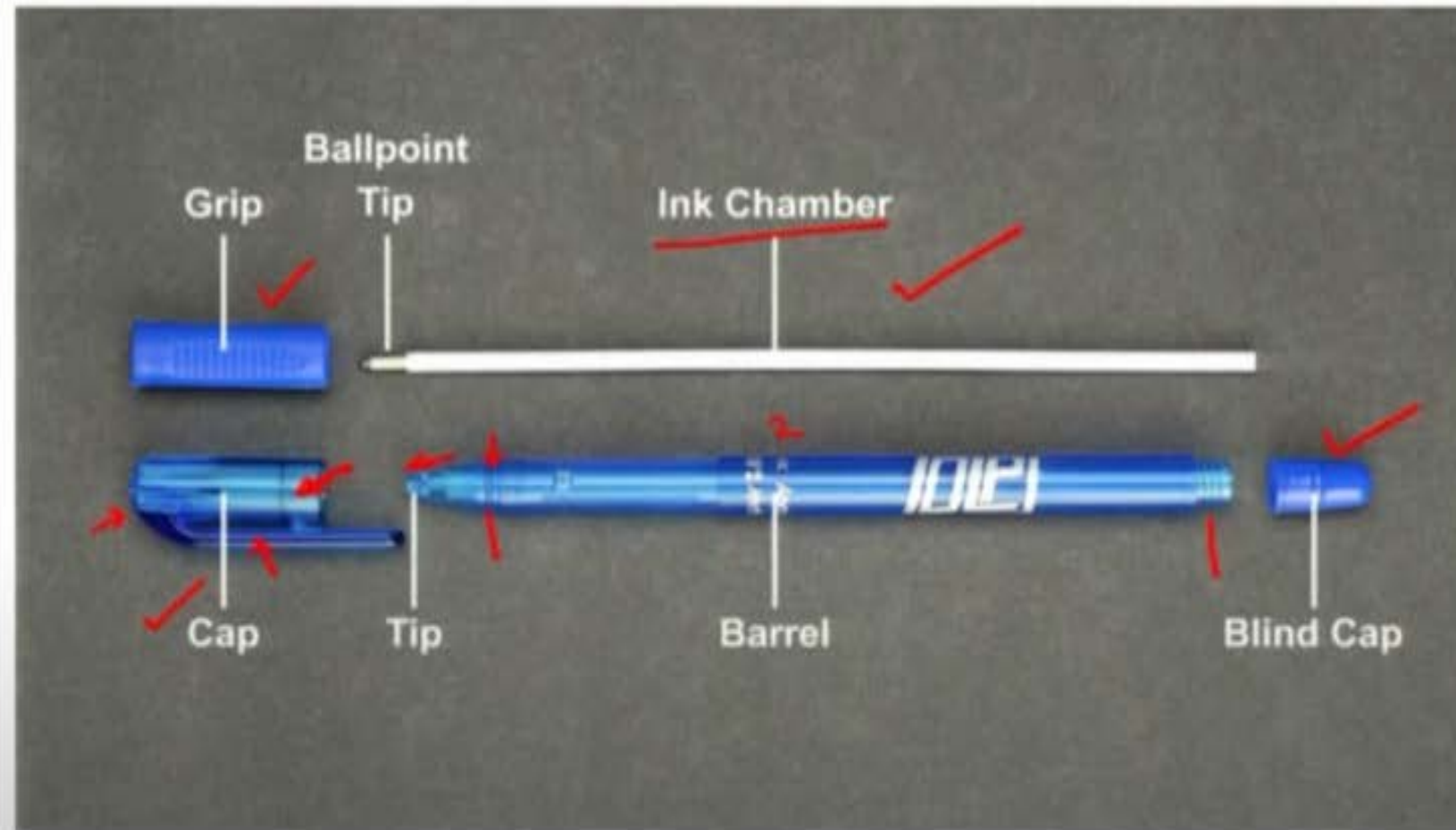
Example of Function Definition Worksheet

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Function Definition Worksheet: PEN

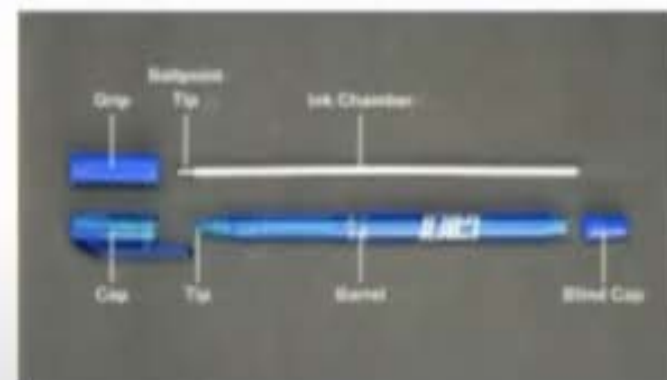


Function Definition Worksheet: PEN



Sr. No	Part Name	Function Definition		Function Location			
		Verb	Noun	Part		Assembly	
				Primary	Secondary	Primary	Secondary
1.	Cap	Secure	Seal	✓			✓
		Protect	Tip		✓		✓
2.	Tip	Transmit	Force	✓			✓
		Direct	Point		✓		✓
3.	Barrel	Position	Refill	✓			✓
		Improve	Aesthetics		✓		✓
		Transmit	Force		✓		✓
		Provide	Grip		✓		✓
		Encase	Body		✓		✓
4.	Grip	Provide	Grip	✓			✓
		Ensure	Grasp		✓		✓
		Apply	pressure		✓		✓
5.	Ballpoint Tip	Make	Marks	✓		✓	
		Deposit	Ink		✓		✓
		Apply	Pressure		✓		✓
6.	Ink Chamber	Store	Ink	✓			✓
		Contain	Reservoir		✓		✓
7.	Blind Cap	Conceal	End				
		Hide	closure				

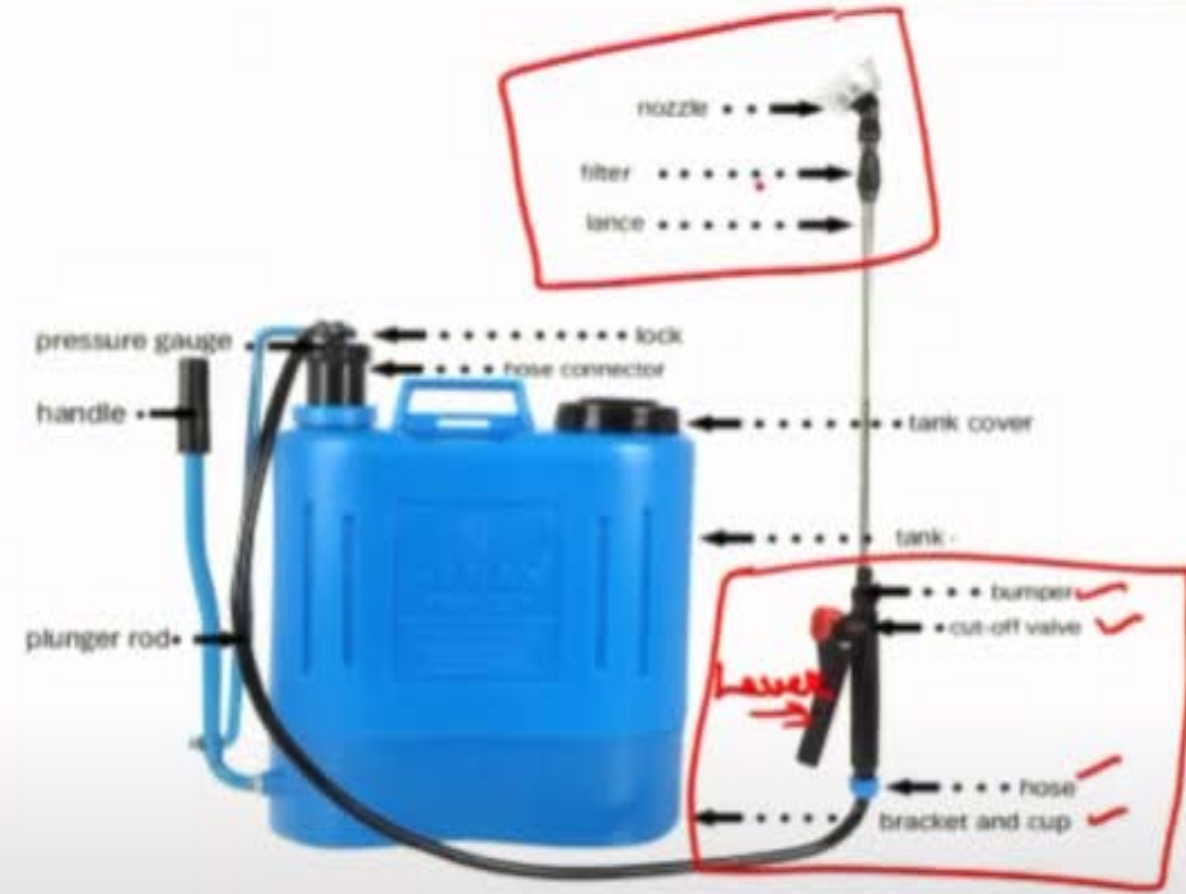
Produce Marks
Make Marks



Product Selection: Knapsack Sprayer

- A knapsack sprayer is a portable agricultural or gardening tool that is used to apply liquid pesticides, herbicides, fertilizers to plants, crops, or gardens.
- The name 'knapsack' comes from the fact that it is often worn on the operator's back.
- A knapsack sprayer disperses liquid through a hand-held nozzle attached to a pressurized reservoir carried on the operator's back.
- Knapsack sprayers are ideal for spot-treating regions.

Knapsack Sprayer



Source: www.facebook.com/aakgrow.croplifekenya/

Source: www.amazon.in/HYMAX-Sanitizer-Sprayer-Pressure-Complex



Application (NOT with chemical)

- Knapsack sprayers can still be valuable tools for applying organic treatments and solutions.
- 1. **Organic Pest Control**: Natural pest control methods are frequently used in organic farming.
- 2. **Liquid Fertilizers**: Organic liquid fertilizers like manure, compost tea, seaweed extract, or fish emulsion can be applied using a knapsack sprayer.
- 3. **Weed Control**: A knapsack sprayer can be used to apply organic weed control methods such as vinegar-based herbicides.
- 4. **Mineral Sprays**: Mineral sprays, such as sulfur or copper-based sprays, are used by some organic farms to control fungal diseases.
- 5. **Water**: Apply plain water with the knapsack sprayer for tasks such as irrigation, dampening soil for seed germination, and foliar feeding.

Thank You

