ACCOUNTING	Lesson: Notes, Tasks and solutions
Inventory Control System	

Learning Outcome 3: Managing Resources

11.3.4 Record transactions in the subsidiary journals and ledgers, utilising the periodic inventory system and compare it to the perpetual inventory system

What is Periodic Inventory system?

A **periodic inventory system** is a method of finding the value of merchandise at periodic intervals by taking a physical count of the stock. It provides inventory and cost of goods sold data only when inventory is counted (for example, at year end).

- Inventory purchase or sale is recorded in "Purchases" account.
- There is no continuous recording of trading stock movement. Trading Stock account is updated on a periodic basis, at the end of each accounting period (e.g., monthly, quarterly).
- It is not possible to ascertain from the books/inventory accounts, what the stock on hand should be.
- Costs of materials used and costs of goods sold cannot be calculated until stock at the end, determined
 by physical count, are subtracted from the sum of opening stock and purchases.
- The stock on hand is counted periodically, usually at the end of the accounting period.

Example 1:

On May 1, 2006: Purchased 1000 units of goods at R30 per unit. On May 6, 2006: Sold 200 units of goods at R50 per unit on credit. Record the transaction in the subsidiary journal and post to the purchases, sales, debtors and creditors accounts.

Periodic inventory system

		Debit	Credit			
1/5/2006	Purchases	30 000				
	Creditors Control		30 000			
* Under periodic inventory system, all purchases during the accounting period are recorded in the "Purchases"						
account.						

		Debit	Credit
6/5/2006	Debtors Control	10 000	
	Sales		10 000

* Under periodic inventory system, the following journal entry is recorded at the end of accounting period.

31/5/06	Trading stock	24 000	
	Purchases		24 000

Quantity of merchandise on hand: = 1,000 units purchased - 200 units sold = 800 units left = 800 units x R30 per unit cost = R24000

31/5/06	Cost of goods sold	6 000	
	Purchases		6 000

Note: The **periodic inventory adjustment** at the end of the period adjusts inventory to the physical count, closes out any purchase accounts, and runs any difference through cost of goods sold.

Cost of goods sold: = Total purchases - stock at the end

= 1,000 units x R30 per unit cost - 800 units xR30 per unit cost

 $= R30\ 000 - R24\ 000 = R6\ 000$

Stock on hand at the end and Cost of goods of sold:

Stock at the end: = Beginning stock + Purchases during the period - Cost of goods sold

 $= R0 + R30\ 000 - R6\ 000 = R24\ 000$

Cost of goods sold: = Beginning stock + Purchases during the period - Ending stock

 $= R0 + R30\ 000 - R24\ 000 = R6\ 000$

POSTING TO THE LEDGER

Dr]	Purchase	s Account	Cr
1/5/06	Creditors control	CJ	30 000			

Dr	Creditors Control account							
				1/5/06	Purchases	GJ	30 000	

Dr	Debtors Control Account						
6/5/06	Sales	GJ	10 000				

Dr	Sales Account							
31/5/06	Trading Account		10 000	6/5/06	Debtors Control	DJ	10 000	

Advantages

• This system is not costly and less work.

Disadvantages

- Profit or loss is determined only at the end of period.
- Stock loss/gain is only noticed at the end of year when the physical count of the inventory is taken.
- Lacks readily available inventory data
- Sales revenues is booked when a sale is made, but not cost of goods sold
- Records documenting quantity and per unit cost of individual inventory items are not maintained
- Stock on hand is determined via a physical count, and then cost of goods sold is worked out.

TASK

1. On June 5, 2006: Purchased 600 units of merchandise at R35 per unit. On June 16, 2006: sold 400 units of merchandise at R55 per unit on credit.

Required: Use periodic inventory system to record the above transaction in the subsidiary journal and post to the **purchases, sales, creditors and debtors ledger** accounts.

SUMMARY: COMPARISON BETWEEN PERPETUAL AND PERIODIC INVENTORY SYSTEMS

Entries in the general ledger when the two systems are used

NO	TRANSACTION		INVENTORY TEM	PERIODIC INVENTORY SYSTEM		
		Debit	Credit	Debit	Credit	
1	Credit purchases of merchandise	Trading stock	Creditors control	Purchases	Creditors control	
2	Merchandise purchases by cheque	Trading stock	Credit Bank	Purchases	Credit Bank	
3	Merchandise returned to suppliers /purchases returns	Creditors control	Trading stock	Creditors control	Creditors allowances	
4	Carriage on purchases – merchandise for credit/for cash	Trading stock	Bank/ creditors control	Carriage on purchases	Bank/creditors control	
5	Merchandise withdrawn for personal use	Drawings	Trading stock	Drawings	Purchases	
6	Credit sales of merchandise	Debtors control	Sales	Debtors control	Sales	
		Cost of sales	Trading stock	No entry	No entry	
7	Merchandise returned by	Debtors	Debtors control	Debtors	Debtors control	

cust	comers/sales returns	allowances		allowances	
		Trading stock	Cost of sales		
COMPLE	TED THE TASK? SO	DLUTION			
ΓASK:					
	2006: Purchased 600 un		at R35 per unit.	On June 16, 200	6: Sold 400 units of
	e at R55 per unit on creventory system	eait.			
Periodic III	ventory system			Debit	Credit
5/6/2006	Purchases			21 000	Creat
5/0/2000	Creditors Con	trol		21 000	21 000
* Under per	riodic inventory system		ng the accounting	period are record	
account.	, , , , , , , , , , , , , , , , , , ,	, r	6	1	
				Debit	Credit
16/6/2006	Debtors Control			22 000	
	Sales				22 000
-	riodic inventory syste	m, the following jo	ournal entry is re	corded at the e	nd of accounting
period.					
30/6/06	Trading stock			7 000	
	Purchases				7 000
O		COO't1-	1 400	-14 200 4 - 1	- Cı
-	merchandise on hand: rchandise on hand:	= 600 units purch = 200 units x R35			ert
Cost of file	Tenandise on nand.	– 200 uiits x K33	per unit cost – K	7 000 T	
30/6/06	Cost of goods sold			14 000	
30/0/00	Purchases			14 000	14 000
	1 61011650			1	11.000
	periodic inventory adjus	stment at the end of	the period adjusts	s inventory to the	physical count, closes
Note: The p					, , , , , , , , , , , , , , , , , , , ,
	chase accounts, and rur	ns any difference thr	ough cost of good		
		ns any difference the chases - stock at the			
out any pur	ods sold: = Total pur		end	per unit cost	
out any pure Cost of goo	ods sold: = Total pur = 600 units = R21 000	chases - stock at the s x R35 per unit cost - R14 000 = R7 00	e end t - 200 units xR35 0	per unit cost	
out any pure Cost of goo Stock on ha	ods sold: = Total pur = 600 units = R21 000 and at the end and Co	chases - stock at the s x R35 per unit cost - R14 000 = R7 00 st of goods of sold:	e end t - 200 units xR35 0		
out any pure Cost of goo Stock on ha	ods sold: = Total pur = 600 units = R21 000 and at the end and Co e end: = Beginning	chases - stock at the s x R35 per unit cost - R14 000 = R7 00 st of goods of sold: stock + Purchases of	e end t - 200 units xR35 0 luring the period -		old
Out any pure Cost of goo Stock on ha	Total pur = 600 units = R21 000	chases - stock at the s x R35 per unit cost - R14 000 = R7 00 st of goods of sold: stock + Purchases could be stock - R7 000 = R14	e end t - 200 units xR35 0 luring the period - 4 000	· Cost of goods s	old
Out any pure Cost of goo Stock on ha	ods sold: = Total pur = 600 units = R21 000 and at the end and Co e end: = Beginning	chases - stock at the s x R35 per unit cost - R14 000 = R7 00 st of goods of sold: stock + Purchases could be stock - R7 000 = R14	e end t - 200 units xR35 0 luring the period - 4 000	· Cost of goods s	old

POSTING TO THE LEDGER

Dr				Purchas	ses Account	C	r
1/5/06	Creditors control	CJ	21 000				

Dr	Cre	editors Control account			Cr
		1/5/06 Purchases	GJ	21 000	

		1/5/06	Purchases	GJ	21 000

Dr		Cr				
6/5/06	Sales	GJ	22 000			

Dr	Sales Account							
				6/5/06	Debtors Control	DJ	22 000	