

3055 BA SANGAM COLLEGE

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Worksheet 15

School: Ba Sangam College

Year:12

Subject: Home Economics

Name:

Strand	2 HEC 12.2 Food and Nutrition		
Sub strand	HEC 12.2.3 Diet and Health		
Content Learning	Learning HEC 12.2.3.1 Explore the utilization of micronutrients and the effects of		
Outcome	malconsumption by individuals.		

FUNCTIONS OF MINERALS	DIETARY SOURCES	FACTORS WHICH HELP ABSORPTION	
	PRINCIPAL MINERAL ELEMENTS		
 Calcium Necessary for: ✓ development of strong bones and teeth. ✓ normal clotting of blood. ✓ normal functioning of muscles and nerves. 	Milk, cheese Tinned fish (of which bones are eaten) Green vegetables, fortified flour, hard water.	 ✓ Vitamin D. ample supply through diet/ sunlight is necessary. ✓ Phosphorous, an essential ingredient in calcium phosphate, must be available in correct proportion. ✓ Parathormone: a hormone produced in parathyroid in the neck controls the calcium balance in the blood. ✓ Vitamin C (ascorbic acid) is useful in absorption because acid environment improves solubility. 	
 Phosphorous ✓ Necessary for bone and tooth formation. 	Meat, Fish, Eggs, Dairy product, Whole cereals, green vegetables	Absorbed more efficiently than calcium, 70% is absorbed through intestine.	
 Essential component of DNA which determines heredity. 	vegetables	✓ Needs calcium, vitamin D and activity of parathyroid hormone (PTH) which	

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✓ Essential component of cell, blood, many	regulates metabolism of phosphorous and calcium.
enzymes and	
hormones.	$\checkmark Most is deposited in$
✓ Necessary for all	the bones; a little goes
metabolism.	to the teeth. Rest is
✓ Forms part of the ATP	contained in the Red
and ADP which are	Blood Cells.
involved in energy in	✓ Absorption may be
the cells.	decreased by antacids,
	iron, aluminum,
	magnesium which
	may form insoluble
	phosphates and be
	eliminated in the
	faeces.
	✓ Caffeine causes
	increased
	phosphorous
	excretion.

<u>Activity</u>

1.	State t	(4 marks)				
	i.	Calcium-				
	ii.	Phosphorous-				
2.	2. Write down the nutrient's dietary sources; (2 marks) Calcium					
	Phospl	10rous				
3.	. State some factors of the absorption from the following mineral; Calcium-					
	Phospl	norous <u>-</u>				

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