



Year9 Term2 Biology

Unit 9B Fit and Healthy

Weeks 1-2	Topic	<i>In this unit pupils will learn...</i>
<ul style="list-style-type: none"> 9B.4 We are what we eat. (pg#24-25) 9B.5 Alcohol (pg# 26-27) 		<ul style="list-style-type: none"> balanced diet and unbalanced diet. deficiency diseases (deficiency of Vitamin D, Vitamin B, Calcium and protein) malnutrition and related problems. obesity and related problems. how to carry out food tests (protein, fats, glucose and starch) the effects of excessive use of alcohol that alcohol is an addictive and depressant chemical. about the social problems due to alcohol addiction.

Assessment: Quiz #1 HW#1 Lab#1

Week 3-5	Topic	<i>In this unit pupils will learn...</i>
<ul style="list-style-type: none"> 9B.6 Maintaining fitness (pg# 28-29) 9B.7 Drugs (pg# 30-31) 		<ul style="list-style-type: none"> how to maintain healthy heart. causes of heart diseases and how to prevent those heart diseases. parts of skeletal system and identify them on a skeleton model and chart. to describe how the skeletal system work with the muscular system to maintain balance and movement. to state what are drugs and different groups of drugs. describe advantages and disadvantages of using drugs. explain the effects of abuse of some drugs.

Assessment: Unit Test #1 HW#3, 4 and 5 Lab#2 Project#1

9C. Plants and Photosynthesis

Weeks 6-8	Topic	<i>In this unit pupils will learn...</i>

<ul style="list-style-type: none"> ▪ 9C.1 Photosynthesis (pg# 34-35) ▪ Factors affecting photosynthesis ▪ 9C.2 The leaf (pg# 36-37) ▪ The leaf structure ▪ Testing a leaf for starch. 	<ul style="list-style-type: none"> • about photosynthesis as the key process producing new plant biomass. • that the carbon dioxide for photosynthesis comes from the air and that the water is absorbed through the roots. • that chlorophyll enables a plant to utilize light in photosynthesis. • how knowledge about the gases in the air has led to development of ideas about photosynthesis. • about the role of the leaf in photosynthesis. • about the importance of photosynthesis to humans and other animals. • to interpret data and graphs using scientific knowledge and understanding. • how to investigate photosynthesis in pondweed, controlling relevant variables.
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Assessment: Quiz #2 HW#6, 7 and 8 Lab#3 and 4

Week 9	Topic	<i>In this unit pupils will learn...</i>
<ul style="list-style-type: none"> ▪ 9C.3 The roots (pg# 38-39) 		<ul style="list-style-type: none"> • structural adaptation of a root hair cell for absorption. • how to draw the structure of a root hair cell and the path way taken by the water. • to prepare and observe a micro slide of onion root.

Assessment: Unit Test #2 HW#9 and 10 Lab#5 Project#2

Week 10	Revision
Week 11	Examination 50%