

# 4TH YEAR BIOLOGY 2009-2010 WORK SCHEDULE

**Assessment-** after each topic students will perform a short multiple choice test

## **UNIT 1 - STRUCTURE OF HEART LUNGS & CIRCULATORY SYSTEM**

HEART DISEASE - MAINTAINING A HEALTHY HEART

EFFECTS OF SMOKING ON THE LUNGS & HEART

**Practical - heart and lung dissection - The dissection will represent 5% of the term's grade**

## **UNIT 2 -MICROORGANISMS - BACTERIA & VIRUSES**

PATHOGENIC ORGANISMS - HOW DISEASE IS SPREAD

HYGIENE ISSUES IN MINIMISING SPREAD OF DISEASE

**Practical - testing the effectiveness of disinfectants on growth of micro-organisms - 5% of grade**

**Project - Powerpoint presentation on a human disease - 5% of grade**

## **UNIT 3 -**

NERVOUS SYSTEM

BRAIN

HORMONES

EFFECT OF DRUGS ON THE BRAIN AND NERVOUS SYSTEM

**Project - Powerpoint presentation on any aspect of the human brain - this could be a study of a particular part of the brain, a brain defect, a brain injury, effects of drugs on the brain... - 5% Of grade**

## **UNIT 4**

PLANT BIOLOGY - PHOTOSYNTHESIS

MINERAL SALT REQUIREMENTS

GROWING SEEDS , VEGETATIVE PROPOGATION

**Practical - growing food project 5% of grade**

GLOBAL WARMING ISSUES - IMPORTANCE OF PLANTS

## **UNIT 5**

CELLS / CELL DIVISION/ DNA GENES & INHERITANCE

HUMAN GENETICS & GENETIC DISEASES

## **ASSESSMENT**

WEEKLY TESTS - (75% OF OVERALL MARK)

PROJECT WORK - PROJECTS (25% OF OVERALL MARK)

1. POWERPOINT PRESENTATIONS ON BRAIN TOPIC (5%)and DISEASE TOPIC (5%)
2. PRACTICAL - GRADE GIVEN FOR DISSECTION WITH FLAG LABELS (5%) , MICROBIOLOGY PRACTICAL (5%)AND FOOD GROWING PROJECT (5%)

notes available on school website -

