Year 11 Biology Unit 2 Holiday Homework June/July 2016

**Part 1:**

**Cell growth and cell differentiation:**

* the types and function of stem cells in human development, including the distinction between embryonic and adult stem cells and their potential use in the development of medical therapies

Complete Activity on page 236 Nelson – “Investigation of an issue: A lifesaving therapeutic drug is abused for power”

This task needs to be completed on lined paper OR typed up and printed for submission.

**Part 2:**

**Sexual reproduction and Asexual reproduction:**

* how an offspring from two parents has a unique genetic identity
* the biological advantage of sexual reproduction, specifically the genetic diversity in offspring.
* the types of asexual reproduction including fission, budding, vegetative propagation and spore formation
* the biological advantages and disadvantages of asexual reproduction

Create a poster on Sexual Reproduction vs. Asexual Reproduction. Your poster must include the following:

* The key events in meiosis
* How sperm cells and ova cells are created and fertilised.
* The process of a fertilised ova/sperm cell developing into an embryo and then a foetus.
* The biological advantages and disadvantages of sexual reproduction.
* The process of fission, budding, vegetative propagation and spore formation.
* The biological advantages and disadvantages of asexual reproduction.

Poster needs to be on A3 or larger paper. A bibliography that lists the resources used to gather information used for the poster must also be attached to the back of the poster.

Study hard! See you all next term.

Task is due first lesson back.

(Lewis’ class – 11th July 2016)

(Ms Heath’s class – 12th July 2016)