## Tobermory High School

## Standard Grade Biology Biotechnology

2. Problems with Profit and Waste. At the end of this topic you should know:	Chec	klist	Grade
(a) some examples of the damage caused to the environme disposal of untreated sewage and give examples of disease may be spread by untreated sewage.			General
(b) the principal precautions to be taken during lab work with micro-organisms, and explain the importance of such precaubiotechnological processes whenever relevant.			General
(c) the precautions which are taken during manufacturing pr with reference to resistant fungal and bacterial spores.	ocesses		Credit
(d) the process of decay in terms of the energy requirements micro-organisms.	s of		General
(e) the part played by bacteria in the process of decay and r of carbon and nitrogen.	ecycling		Credit
(f) the main process in the treatment of sewage is its breakd action of decay micro-organisms to products harmless to the environment and describe how the oxygen required can be puring sewage treatment.	·		General
(g) why a range of micro-organisms is needed to breakdown of materials in sewage.	a range		General
(h) why complete breakdown of sewage is only possible in a conditions.	erobic		Credit
(i) 2 examples of useful products and the waste materials from they are gained through the action of micro-organisms and economic importance of this technology.			General
(j) the advantages of up-grading waste in terms of increasing or protein levels.	g its energy		Credit
(k) that alcohol and methane are products of fermentation ar advantages of deriving fuel through fermentation rather than fossil sources.			General
(I) that under suitable conditions, micro-organisms can reprorapidly by asexual means, and that they may be harvested to protein rich food for animals or man.			General
Homework  Find of Topic Tost			
End of Topic Test			