# Assignment Sheet A Level

Mrs. Siedlecki

Coginchaug Regional High School 2014

***Expected Performances:***

* Describe the general structure of the atom.
* Describe how atoms combine to produce compounds with new properties through the transfer (ionic bonding) or sharing of electrons (covalent bonding).
* Explain the chemical composition of acids and bases, and explain the change of pH in neutralization reactions.
* Explain how the structure of the carbon atom affects the type of bond it forms in organic and inorganic molecules. .
* *Explore the structure of biopolymers such as carbohydrates, lipids, proteins, and nucleic acids.*
* *Describe the general role of DNA and RNA in protein synthesis.*
* *Explore and explain the role of proteins as chemical catalysts (enzymes), including the effect of temperature and pH on the rate of enzymatic reactions*.
* *Design and conduct appropriate types of scientific investigations, identify independent and dependent variables, including those that are kept constant and those used as controls, use appropriate tools and techniques to make observations and gather data, assess the reliability of the data that was generated in the investigation, use mathematical operations to analyze and interpret data, and present relationships between variables in appropriate forms, articulate conclusions and explanations based on research data, and assess results based on the design of the investigation, and communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.*

## Assignment Due date

\_\_\_ Reread p. 8-9; 1062-1063; 533. Go to [www.iconn.org](http://www.iconn.org)

and find some background information about yeast cells or

yeast populations. Paraphrase the information, cite it correctly

and add it to your lab report. Sept . 24 or 25

Durham fair weekend – No homework

\_\_\_ Read p. 35 – 43; Write your purpose statement, list of

materials and your procedure. Construct a table

to collect your data.

 Oct. 1 or 2.

\_\_\_\_\_ Read p. 44- 48. Collect data on Yeast Population Lab. Oct. 3 or 6

\_\_\_\_ Yeast Population lab due!!!!!! (100 points) Oct. 7 or 8

\_\_\_\_ Chemical modeling – respiration, photosynthesis,

dehydration synthesis – in class participation grade Oct. 9 or 10

\_\_\_\_ Lab – Using Indicators to detect organic compounds Oct. 14 or 15

\_\_\_\_ Read p. 49 – 54; Do orally p. 57 all .

Write down p. 59 # 1-10. Oct. 16 or 17

\_\_\_ Study for test

\_\_\_ Prepare notebook for inspection Oct. 20 or 21