



Teacher: \_\_\_\_\_ M. Adrover \_\_\_\_\_

Subject \_\_\_\_\_ Biology \_\_\_\_\_

Grade: \_\_\_\_ 10 HBio \_\_\_\_

## Lesson Plan – Week \_\_\_\_\_ Jan. 18<sup>th</sup> – 22<sup>th</sup>, 2016 \_\_\_\_\_

<b>Unit</b>	<b>Unit III: Genetics and Biotechnology</b>
<b>Lessons</b>	DNA, RNA, and Protein Synthesis
<b>Objectives</b>	Students will be able to describe the relationship between nucleic acids—DNA, RNA—and proteins.
<b>Materials</b>	Infocus projector, Bio in Focus, notebook, internet connection.
<b>Activities</b>	<ul style="list-style-type: none"> <li>- Chapter Review and Section Reviews, with emphasis on the structure and behavior of nucleic acids.</li> <li>- Crash Course Biology, Khan Academy, and real time animations of the DNA molecule will be used to visualize how DNA behaves (protein synthesis, replication, translation, mutations, etc).</li> <li>- Lab I of Semester II: BLASTED: how to use algorithms to describe ancestry. Students will use computer programs developed and used by geneticists and computer scientists.</li> <li>- Discussion of dihybrid cross short test.</li> </ul>
<b>Assessment</b>	Test I of semester II will be given on Jan., 29 <sup>th</sup> . It will include: Mendelian Genetics and Nucleic Acids.

**Special Note:** This lesson plan may be subject to change depending on the group's educational needs, school activities, holidays, and/or suspension of classes due to emergencies and extreme weather conditions.