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| Day | Topic | Agenda | Classwork | Homework |
| 1 | Scientific Method | 1. Warm Up: Questionnaire 2. Instructor PPT 3. Review expectations and grades 4. RRP/SM PPT 5. Introduction to Surface Pros and class website 6. RRP link and summary 7. Lab Safety (p.4-6) 8. Pipetting Lab 9. Scientific Method Webquest 10. Density Lava Lamp Lab 11. Exit slip: Give me a . and a ? | 1. RRP link and summary 2. Pipetting lab 3. Scientific Method Webquest 4. Density Lab | 1. Recent Research Project topic and link to article due tomorrow |
| 2 | Genetics | 1. Warm Up: Scientific Method Puzzle 2. KWL on DNA 3. DNA Structure, Function and DNA PPT with Smart Response Questions 4. CSI Lab Part 1 5. “Have your DNA and eat it too” Activity 6. Virtual PCR Webquest 7. CSI Lab Part 2 8. Work on Recent Research Project 9. Exit Slip | 1. Scientific Method Puzzle 2. KWL DNA 3. DNA Activity 4. Virtual PCR Webquest | 1. Recent Research Project Questions due tomorrow |
| 3 | Proteomics | 1. Warm Up: Read lab notebook in lab manual 2. Lab fail 3. Proteins PPT 4. Build a protein model 5. Protein folding kinesthetic activity 6. Enzyme PPT 7. Set up lab notebook 8. Action of Different Enzymes on Apple Juice Production Lab 9. Understand How it Works Worksheet 10. Work on recent research project 11. Exit Slip | 1. Lab Fail 2. Protein model 3. Apple Juice Lab in lab notebook 4. Understand How it Works | 1. Recent Research Project 3 resources due tomorrow |
| 4 | Biomedical Engineering | 1. Warm Up: Biomedical engineering document on website 2. Race to Find a Cure Lab 3. Biomedical Engineering and the Eye PPT 4. Groups to design and create protective eyewear. Present eyewear to class, students evaluate. 5. Complete recent research project 6. Exit slip | 1. Comprehension questions on website 2. Questions for race to find cure lab 3. Design eyewear, test and present | 1. Recent Research Project due tomorrow |
| 5 | Agricultural Biotechnology | 1. Warm Up: Mind map in groups on agricultural and plant biotechnology 2. Ted Talk on GMOs and discussion 3. Soil-Less Sky Video and Hydroponics discussion 4. Hydroponic Chamber Lab 11b 5. Time to prepare for presentation 6. Recent Research Project Presentations 7. Movie *Food, Inc.* 8. Shop evaluation | 1. Graphic organizer on GMOs 2. Evaluation of recent research projects |  |