

Marine Biotechnology and Bioinformatics
 July 21, 2007
 DNA, Proteins, and Pipetting

| Topic | Activity | Time | Resources | Comments |
|--|--|------------|---|-----------|
| Teacher Introduction | | 5 min | | All of us |
| Biotechnology Introduction | Group Guided Questions | 15 minutes | PPT | Dawn |
| Transcription and Translation Information | Codon Bingo | 40 minutes | PPT, video, Codon sheets, Bingo Boards, and Amino Acid Sheets | Scot V |
| Bioinformatics | Cn3D protein structures on the internet Building Protein Structures | 45 hour | Instructional handouts Variety of candy to make protein | Dawn |
| STEM careers discussion | | 15 | List of medical, food companies w/science related careers | Scott S |
| Lunch | | | | |
| Mussel Dissection and Collection Microscope gill slides | DNA Collection: video (extraction) | 45min | Dissection handout: label Dissection tools Dissection and Compound microscope | Tim |
| Basic Lab Technique | Pipetting the secret CODE | 1 hour | 96 well plates colored water, pipettes | Scott S |
| Interactive Quiz Evaluation | Remote control quiz taken through computer generated software | 15 minutes | Turning Point software | Scott V |
| | | | | |
| | | | | |