|  |  |  |  |
| --- | --- | --- | --- |
| Teacher: Y. Abrams | Course: Biology I CP | Period(s): 3 and 4 | Week of: / Dates: 9/4 – 9/8 |
| Unit Title: Inquiry and Biochemistry |  |  |
| State Standards: B-1, B-2, B-3 |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Standards | Goals | As a result of this lesson the student will be able to: | Instructional Plan | Activities (aligned, sequenced, build, time) | Student Work | (Thinking & Problem Solving, Real World)  | Assessment | (aligned, rubrics, >2, written) | Grouping Method | Materials | Accommodations (IEP, 504, ESOL) |
| **Monday** |  |  | NO SCHOOL- LABOR DAY |  |  |  |  |  |
| **Tuesday** | H.B.2A.1H.B.2A.2 | Construct explanations of how the structures of carbohydrates, lipids, proteins, and nucleic acids are related to their functions in organisms. Plan and conduct investigations to determine how various environmental factors affect enzyme activity and the rate of biochemical reactions. | Warm-up question (10 min.)Biochemistry notes/discussion (20 min.)Enzyme foldable (40 min.)Weekly vocabulary (15 min.)Exit slip (5 min.) | Respond to warm-up question using content knowledge.Discuss and summarize basic biochemistry.Create foldable for study material.HW: finish weekly vocabulary | Informal assessment by asking questions and student summaries during class discussions/activities.Unit test that includes multiple choice questions, graphic interpretation, and free response questions. | Individual completionWhole group | Biology textbookHandoutsFoldable materialsSMARTBORAD | Extended time on assignments.Read aloud all directions from handouts. |
| **Wednesday** | H.B.2A.1H.B.2A.2 | Construct explanations of how the structures of carbohydrates, lipids, proteins, and nucleic acids are related to their functions in organisms.Plan and conduct investigations to determine how various environmental factors affect enzyme activity and the rate of biochemical reactions. | Warm-up question (10 min.)Review weekly vocabulary. (15 min.)Enzyme lab (45 min.)Enzyme graphs practice (15 min.)Exit slip (5 min.) | Respond to warm-up question using content knowledge.Analyze results from lab.Practice interpreting enzyme action graphs. | Informal assessment by asking questions and student summaries during class discussions/activities.Results and student analysis of lab.Unit test that includes multiple choice questions, graphic interpretation, and free response questions. | Whole groupAssigned small groupsIndividual practive | Biology textbookHandoutsSMARTBORADLab materials | Extended time on assignments.Read aloud all directions from handouts. |
| **Thursday** | H.B.2A.1 | Construct explanations of how the structures of carbohydrates, lipids, proteins, and nucleic acids are related to their functions in organisms.  | Warm-up question (10 min.)Review enzymes (10 min.)Acid/base notes/discussion (20 min.)pH Gizmo (45 min.)Exit slip (5 min.) | Respond to warm-up question using content knowledge.Evaluate substances for identification as an acid or base. | Informal assessment by asking questions and student summaries during class discussions.Gizmo results.Unit test that includes multiple choice questions, graphic interpretation, and free response questions. | Whole groupIndividual practice | Biology textbookHandoutsSmartboardCOW | Extended time on assignments.Read aloud all directions from handouts. |
| **Friday** | H.B.2A.1 | Construct explanations of how the structures of carbohydrates, lipids, proteins, and nucleic acids are related to their functions in organisms.  | Warm-up question (10 min.)Vocabulary quiz (15 min.)Macromolecule notes/discussion (30 min.)Unit study guide (30 min.)Exit slip (5 min.) | Respond to warm-up question using content knowledge.Complete vocabulary quiz.Summarize characteristics of macromolecules.Prepare for unit test. | Informal assessment by asking questions and student summaries during class discussions.Unit test that includes multiple choice questions, graphic interpretation, and free response questions. | Whole groupIndividual practice | Biology textbookHandoutsSmartboard | Extended time on assignments.Read aloud all directions from handouts. |

\* All plans are subject to change. Student progress will be monitored and adjustments will be made.