

Science Assessment Methods; Comprehensive List for Science Department

7th Grade

1. Clicker review questions
2. Quizzes
3. Lab reports
4. Projects
5. Oral and/or written reports
6. Recitation
7. Homework/ in-class work
8. Discussion
9. Teacher developed rubrics
10. Skills and proficiencies
11. Group assignments
12. Role playing, debates
13. Games

8th grade

1. Tests
2. Quizzes
3. Lab reports
4. Projects
5. Oral and/or written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills and proficiencies
11. Group assignments
12. Role playing, debates, mock hearings
13. Clickers and Skyward assignments/quizzes

Biology

1. Tests
2. Quizzes
3. Lab reports
4. Projects
5. Oral/written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills and proficiencies
11. Group assignments
12. Role playing, debates, mock hearings
13. Clicker review questions

14. Verbal feedback/body language

Honors Biology

1. Tests
2. Quizzes
3. Lab reports
4. Projects
5. Oral/written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills and proficiencies
11. Group assignments
12. Role playing, debates, mock hearing
13. Science project components
 - a. External readings and notecards
 - b. Term paper
 - c. Planning the methodology
 - d. Required protocols
 - e. Experimentation
 - f. Analysis of data
 - g. Conclusion and abstract
 - h. Presentation (science fair is optional)

Earth Science

1. Tests
2. Quizzes
3. Laboratory reports
4. Projects
5. Oral and/or written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills/proficiencies
11. Group assignments
12. Role playing

Integrated Chemistry Physics

1. Safety quiz
2. Notebook checks
 - a. Warm-ups
 - b. In-class problem sets
 - c. Video worksheets
3. Checkpoint quizzes

4. Lab participation and completion
5. Unit tests
6. Energy pie charts activity/stations lab
7. Energy project
 - a. Annotated bibliography
 - b. Pro/con list
 - c. Issue paper
 - d. Final poster
 - e. Presentation
8. Wind turbine project
 - a. Daily participation
 - b. Test of independent variables
 - c. Science journal
9. Energy conservation project
 - a. List of appliances and hours used
 - b. Calculation of energy and cost
 - c. Paper on energy saving ideas
10. Element groups project
 - a. Construction of PowerPoint presentation
 - b. Research properties of element group
 - c. Presentation to classmates

Chemistry I

1. Tests
2. Quizzes
3. Lab reports
4. Projects
5. Oral and/or written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills/proficiencies
11. Group assignments
12. Role playing

Chemistry II

1. Tests
2. Quizzes
3. Lab reports
4. Projects
5. Oral and/or written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills/proficiencies

11. Group assignments
12. Role playing

AP Chemistry

1. Tests
2. Quizzes
3. Lab reports
4. Projects
5. Oral and/or written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills/proficiencies
11. Group assignments
12. Role playing

Physics

1. Safety quiz
2. Lab participation and completion
3. Whiteboarding session participation
4. In-class problem solving
5. Homework completion
6. Checkpoint quizzes
7. Unit tests
8. Challenge/practicum labs
9. Semester one final exam on basic mechanics

AP Physics B

1. Paradigm Lab participation and completion
2. Challenge Lab—successful outcome or completion of written report
3. In-class problem solving
4. Homework completion
5. Unit tests
6. Final exams
7. Participation in review sessions for AP test

Advanced Biology Anatomy and Physiology.

1. Tests
2. Quizzes
3. Lab reports
4. Projects
5. Oral/written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills and proficiencies

11. Group assignments
12. Role playing, debates, mock hearing
14. Case studies/scenarios analysis
13. Science project components
 - a. External readings and notecards
 - b. Term paper
 - c. Planning the methodology
 - d. Required protocols
 - e. Experimentation
 - f. Analysis of data
 - g. Conclusion and abstract
 - h. Presentation (science fair is optional)

Advanced Biology Ecology

1. Tests
2. Quizzes
3. Lab and field reports
4. Projects
5. Oral/written reports
6. Recitation
7. Homework
8. Discussion
9. Teacher developed rubrics
10. Skills and proficiencies
11. Group assignments
12. Role playing, debates, mock hearing
14. Case studies/scenarios analysis
13. Science project components
 - a. External readings and notecards
 - b. Term paper
 - c. Planning the methodology
 - d. Required protocols
 - e. Experimentation
 - f. Analysis of data
 - g. Conclusion and abstract
 - h. Presentation (science fair is optional)

Advanced Biology Genetics

1. Tests
2. Quizzes
3. Lab and field reports
4. Projects
5. Oral/written reports
6. Recitation
7. Homework

8. Discussion
9. Teacher developed rubrics
10. Skills and proficiencies
11. Group assignments
12. Role playing, debates, mock hearing
14. Case studies/scenarios analysis
13. Science project components
 - a. External readings and notecards
 - b. Term paper
 - c. Planning the methodology
 - d. Required protocols
 - e. Experimentation
 - f. Analysis of data
 - g. Conclusion and abstract
 - h. Presentation (science fair is optional)

Research

1. Lab and field reports
2. Projects
3. Oral/written reports
4. Recitation
5. Discussion
6. Teacher developed rubrics
7. Skills and proficiencies
8. Group assignments
9. Role playing, debates, mock hearing
10. Case studies/scenarios analysis
11. Science project components
 - a. Required protocols
 - b. Experimentation
 - c. Analysis of data
 - d. Conclusion and abstract
 - e. Presentation (science fair is required at regional level)