

8th Grade Integrated Physics & Chemistry (IPC)

Sharyland North JR. HIGH

2019-2020

Instructor: Khaleda P. Bhatti

Office: 5100 Dove Ave, Rm. # 122

Phone: 686-1415 (Ext: 3496)

HW website: www.Sharylandisd.org

E-Mail: Use "Contact Me" Tab on my web page

Class Schedule: Monday-Friday

1st-Dept. Head Conference

2nd-GTT-DM & AR

3rd-Regular Sci.

4th-IPC

5th-IPC

7th-IPC

8th- Conference

9th-IPC

TUTORING: MONDAY-THURSDAY

4:00PM-4:30PM

Room # 122

Academic dishonesty will result in a grade of F.

CHAPTERS AND CH. SECTIONS WILL BE COMBINED TO FORM THE UNITS NOT ALL CHAPTERS/SECTIONS WILL BE COVERED

Class Work Activities: vocabulary terms, study questions, study guide, reinforcement and enrichment master handouts, other resource handouts as required per chapter/section. Laboratory investigations and research projects will be done as appropriate per chapter/section in each unit. There will be a comprehensive semester exam at the end of each semester as IPC is a high school credit course.

Chapter Review: Lab activities, summary, vocabulary and concepts, etc. at the end of each chapter will help students to master objectives.

1st 6 weeks (August 19-September 27)

Unit 1 Nature of Science

Chapter 1 The Nature of Science

Unit 2 Properties of Matter

Chapter 14 Solids, Liquids, & Gases

2nd 6 weeks (October 01-November 08)

Unit 3 Motion and Forces

Chapter 2 Motion

Chapter 3 Forces & Newton's Laws

Teacher Prep Day: 09/30/2019; Columbus Day: 10/14/2019

3rd 6 weeks (November 12-December 20)

Unit 4 Energy

Chapter 4 Work and Energy

Chapter 5 Thermal Energy

Teacher Prep Day: 11/13/2019

Thanksgiving Break (Nov. 25-29) & Christmas Break (Dec. 23-Jan. 06)

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4th 6 weeks (January 07-February 21)

Teacher Prep Day: 01/06/2020; Bad Weather Day (Feb 03)

Continue Unit 4 Energy

Unit 5 Electricity & Magnetism

Chapter 6 Electricity

Chapter 7 Magnetism & Its Uses

Unit 6 Structure of Atom & Periodic Table

Chapter 16 Properties of Atoms and The Periodic Table

5th 6 weeks (February 25-April 09)

Teacher Prep Day: 02/24/2020

Continue Unit 6 Structure of Atom & Periodic Table

Chapter 17 Elements & Their properties

Spring Break: March 16-20/2020; Easter Break (April 10 & 13);

Unit 7 Chemical Reactions

Chapter 18 Chemical Bonds

6th 6 weeks (April 14-May 27)

STAAR Review- **Science STAAR will be on May 07**

Unit 7 Chemical Reactions

Chapter 19 Chemical Reactions

Student Holiday (May 25); Teacher Prep Day: 05/28-29/2020

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Course Description

- **General requirements:** Students shall be awarded one credit for successful completion of this course. Prerequisites: none. This course is recommended for students in Grades 9 or 10.
- The student, for at least 40% of instructional time, conducts field and laboratory investigations using safe, environmentally appropriate, and ethical practices
- Integrated Physics and Chemistry. In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.
- Nature of science. Science, as defined by the National Academy of Sciences, is the "use of evidence to construct testable explanations and predictions of natural phenomena, as well as the knowledge generated through this process." This vast body of changing and increasing knowledge is described by physical, mathematical, and conceptual models. Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable.
- Scientific inquiry. Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.
- Science and social ethics. Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).
- Science, systems, and models. A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.

Required:

- ✓ Textbook: Mc Graw Hill: Integrated Physics + Chemistry
- ✓ 1-three ring Binder-2 inch with 6-dividers—1pkg of wide ruled three hole paper, graph paper, 3-solid color folders with pockets and brads
- ✓ 1 pkg. Of colored pencils, #2 lead pencils, ball pens red for grading, colored markers, 2 highlighters, compass, protractor, index cards, 1 Flash drive, TI-30X calculator
- ✓ Ruler with metric system, pink eraser, and pencil sharpener, **1 box of Kleenex and 1 bottle of hand sanitizer-2nd period only.**
- ✓ Index card binder with index cards, 2-1.5 volts motors
- ✓ Students are responsible for all materials presented in class, including announcements about changes in course procedures.
- ✓ Students might have to participate in bringing household materials (for example sugar, baking soda, milk, oil, coffee, vinegar, ammonia, food coloring, detergent, fruits, & vegetables, etc.) to be used in lab activities.

Attendance:

- You are responsible for all material presented in class, including announcements about course procedures. Exams, quizzes, and homework often include questions on material presented only in class, so performance on these indirectly reflects attendance. See tutoring schedule above if absent to make up work missed.
- The student is responsible to keep his/her parent(s) informed of their progress in science class. Failing class progress reports will be given to any student that is failing at mid six weeks period. It is the student's responsibility to have the parent review and sign the progress report.
- Student is responsible to keep a binder. The binder will include all information concerning school and class rules/regulations. The binder will help the student to be organized with all assignments for science class and will be graded and required whenever a teacher/student/parent conference is held.
- **Parents are encouraged to call the teacher for a conference when they receive the three-week failing progress report from both the teacher and the school. A failing progress report will be sent home with the student during the fourth/fifth week of each six weeks if the student is in danger of failing the class.**
- **Student is responsible for textbook. If lost, student must inform teacher immediately.**

Homework:

Students are required to spend 20-30 minutes each day for assigned reading.

Classroom and Lab Policies & Procedures

A. Major Assignments: 60%

I. Tests & Projects:

- A. Test will be given upon completion of a chapter or unit.
- B. Ample time will be allowed in class to review the test.
- C. Reteaching and retesting will be done according to District/school policy.
- D. Retesting does not apply to class work, homework, lab work, projects, and quizzes.

B. Minor Assignments: 40%

II. Class work & Homework:

- A. Class work & Homework may include any other activity the teacher chooses to label as Class work.
- B. Assignments are due at the beginning of the class.
- C. Late work will be accepted according to district's grading policy.
- D. The policy for accepting the late work due to excused absences follows the District/school policy.

III. Lab work & Quizzes:

- A. Detention or lab grade of a "0" may be given for not following the lab safety rules.
- B. Students are not allowed to break or damage the lab equipment. If they do so, they may require replacing the equipment/Detention or office referrals may be assigned also.
- C. Students are recommended to notify the teacher for planned absences.

IV. Notebooks:

- A. One 3-ring binder will be kept to include:
 - 1. Notes
 - 2. Class work/Homework
 - 3. Lab work
 - 4. Quizzes
 - 5. Projects
 - 6. Study guides/Tests
- B. Notebooks will be graded for completeness, neatness, and organization.

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It is recommended that you record names and phone numbers of at least two other class members:

Friends' Name and Phone #:

1. _____

2. _____

Parent's Signature:

Remind

What is Remind?

Remind is a simple way for you to stay informed and up-to-date with what's happening in your class. By joining your teacher's class on Remind, you're choosing to receive class messages via push notifications, SMS, or email. Don't worry because your phone number will not be shared with the teacher or anyone else in the class. Remind also generates a number for the teacher to use so their number stays private as well. I highly recommend you join your class so you don't miss out on important announcements or reminders. Be sure to join the correct class Science or IPC or GTT or TMSCA. If you need assistance signing up or have any questions please feel free to contact me. Follow these steps to join Science or IPC or GTT or TMSCA class:

Join via text:

- Science students enter this number 81010 or (956) 233-7959 with message @msbhatt
- **IPC students enter this number 81010 or (956) 233-7959 with message @20430**
- **GTT students (Fall Sem) enter this number 81010 or (956) 233-7959 with message @41aa1**
- **TMSCA students enter this number 81010 or (956) 233-7959 with message @tmscas**

Join via email:

- Science students send e-mail To: msbhatt@mail.remind.com or go to rmd.at/msbhatt to sign up
- **IPC students send e-mail To: 20430@mail.remind.com or go to rmd.at/20430 to sign up**
- **GTT students-Fall Sem send e-mail To: 41aa1@mail.remind.com or go to rmd.at/41aa1 to sign up**
- **TMSCA students send e-mail To: tmscas@mail.remind.com or go to rmd.at/tmscas to sign up**

Parents please check off the corresponding box and sign to authorize your child to receive these notifications.

- I do give permission for my child to participate in Remind messaging.
- I do not give permission for my child to participate in Remind messaging, should my child sign up without my permission I will not hold Ms. Bhatti accountable.

Student Name (print): _____ Signature: _____

Parent Name (print): _____ Signature: _____

Date: _____ Class Pd: _____ Subject: _____