

8th Grade Integrated Physics & Chemistry (IPC)

Sharyland North JR. HIGH

2020-2021

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-IPC

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 17-September 24)

Unit 1 Nature of Science

Chapter 1 The Nature of Science

Unit 2 Properties of Matter

Chapter 14 Solids, Liquids, & Gases

2nd 6 weeks (September 28-October 30)

Unit 3 Motion and Forces

Chapter 2 Motion

Chapter 3 Forces & Newton's Laws

Teacher Prep Day: 09/25/2020; Columbus Day: 10/12/2020

3rd 6 weeks (November 03-December 18)

Unit 4 Energy

Chapter 4 Work and Energy

Chapter 5 Thermal Energy

Teacher Prep Day: 11/02/2020

Thanksgiving Break (Nov. 23-27) & Christmas Break (Dec. 21-Jan. 05)

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4th 6 weeks (January 06-February 18)

Teacher Prep Day: 01/05/2021; Bad Weather Day (Feb 08)

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 22-April 15)

Teacher Prep Day: 02/19/2021

Continue Unit 6 Structure of Atom & Periodic Table

Chapter 17 Elements & Their properties

Spring Break: March 15-19/2021; Easter Break (April 02);

Unit 7 Chemical Reactions

Chapter 18 Chemical Bonds

6th 6 weeks (April 19-May 26)

Teacher Prep Day: 04/16/2021

STAAR Review- Science STAAR will be on May 06

Unit 7 Chemical Reactions

Chapter 19 Chemical Reactions

Teacher Prep Day: 04/27-28/2021

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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.

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.

Required:

You need following school supplies daily:

- ✓ **Textbook: Mc Graw Hill: Integrated Physics + Chemistry.** IPC book will be utilized daily so hopefully you already picked up from school. If not then pick up today.
- ✓ **1 box of Kleenex and 1 bottle of hand sanitizer**
- ✓ Computer, laptop or chrome book with working webcam and audio sources (buy headphones or air pods), keep your device charged
- ✓ Cell phones with all the apps required in a folder, keep your device charged
- ✓ A folder with your name and class period to keep assignment calendar or any other important class documents
- ✓ Download the following apps on your cell phone by using **Sharyland's google account** and place them in a folder-**Name the folder Education:** Classroom, Docs, Slides, Sheets, Drive, Photo, Meet, YouTube, Remind-add your phone number so I can contact you to tutor, Flipgrid, Edpuzzle, Outlook email-to read your school email daily, skyward-to check your grades
- ✓ Composition notebook and Graphing composition Notebook (**not a spiral**) which can be purchased from Walmart on Nolana Aisle F36 or any Walmart store, Target on Nolana Aisle E42 or any Target store.
- ✓ Pencil, eraser, pencil sharpener, ruler, colored pencils, highlighter, scissors, glue stick, graph paper, flash drive, TI 30X calculator
- ✓ Print out August calendar from my website to keep in your folder or take a screenshot of the calendar and save the image on your phone for daily access
- ✓ Have a Kleenex box, hand sanitizer and water bottle close to you so you don't need leave your virtual classroom.
- ✓ Last page of Syllabus signed by parents; Two friends names and their phone number on the syllabus. Remind sign up by parents and students; Parent signature to give approval for using Remind.
- ✓ Download **Kami extension to your chrome web browser** so you are able to write on your assignments- If using school chrome book, this should be already there
- ✓ Download **Nod extension for google meet** so you are able to raise hands if any questions assignments-If using school chrome book, this should be already there
- ✓ Create **Flipgrid and Edpuzzle account by using Sharyland's google account.**
- ✓ Use restroom before the class starts- during 3 minutes passing period time

Students are responsible for all materials presented in class, including announcements about changes in course procedures.

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 Poly folder 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 or Remind App (preferred):

- **TMSCA students enter this number 81010 or (956) 233-7959 with message @tmcas**
- **All students you need to download Remind app, the class code for each class can be found in the Google classroom header by using the drop-down arrow or search for your class in Remind.**

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: _____