**Integrated Physics & Chemistry (IPC)**

Santa Fe High School

Garry Childs

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**Course Description**

IPC integrates the disciplines of physics and chemistry in topics such as: atomic structure, properties of matter, classification of matter, solution chemistry, atomic bonding, motion, force, energy, and waves.

**Required Materials**

* Writing instruments: color nonspecific; HOWEVER, please do not write in highlighter
* Highlighter: one, any color
* Composition Notebook
* **Calculator**
* **Headphones**

**Class Rules**

1. Come to all classes on time and with all necessary materials.
2. Keep your bodies and your objects to yourself.
3. Turn in your work, with your name on it, on time.
4. Treat your surroundings with respect.

**Course Syllabus**

\*\*\*\*\* Of course, these timelines are subject to change with school events / disruptions, but we'll do our best to stay on track. \*\*\*\*\*

**Introduction: Processes for Scientific Investigations (1 Day)**

**Unit 1 – Properties of Matter (16 Days)**

**Unit 2 – Elements and the Periodic Table (18 Days)**

**Unit 3 – Nuclear Reactions (5 Days)**

**Unit 4 – Solutions (10 Days)**

**Unit 5 – Chemical Reactions (20 Days)**

**Unit 6 – Position, Speed, and Acceleration (11 Days)**

**Unit 7 – Forces and Momentum (11 Days)**

**Unit 8 – Potential and Kinetic Energy (10 Days)**

**Unit 9 – Thermal Energy (10 Days)**

**Unit 10 – Waves (14 Days)**

**Unit 11 – Electricity (10 Days)**

**Unit 12 – Energy Resources (5 Days)**

**Consequences:**

1. Verbal warning
2. Classroom referral and parent contact
3. **PARENT CONFERENCE and OFFICE REFERRAL**

All recurrences of a discussed behavior that occur after a parent conference will result in a referral. Actions that may endanger the safety of the child or others will result in an IMMEDIATE referral. Malicious actions against a student involving chemicals or lab equipment will be reported to the police. Behaviors exhibited in class may be discussed with other school personnel who share a vested interested in the child. This includes, but is not limited to, administration, other teachers that also teach the student, counselors, and sports coaches.

**Behavior in the Lab Setting**

Students in physics have had two years of science safety training. Students will be expected to always act safely while in the lab. Horseplay or malicious activity of any kind is not permitted in the lab. This can lead to the damage or destruction of expensive lab equipment. I understand that accidents can happen, and I expect some accidents to happen. While no child will be held liable for unintended accidents, **misbehavior that results in damage to lab equipment will result in a referral to administration and possible removal from all further lab investigations.** Many of the materials used in physics are expensive and not easy to replace!

**Lab Notebook**

Students will be expected to keep and maintain a complete lab notebook. This notebook will follow the expectations given to the students, which will be attached to the inside of their notebook.

**This MUST be kept in a composition notebook with your name, school year, and class on it. NO PAGES MAY BE RIPPED OUT OR REMOVED!** Please keep this notebook all year long. Lab notebooks are available for students who need them.

**Grading**

1. Minor Grades: 60%
2. Major Grades: 40%

Extra Credit will be available at the teacher’s sole discretion and is NOT guaranteed.

**Late or Missing Assignment Policy**

All assignments are due on the day of the unit exam. Because of the large amount of time given for students to complete work, in addition to the work time in class, late work will be accepted up to **THREE DAYS LATE** for a **30% penalty.** Late work will not be accepted after that point. All missing assignments are IMMEDIATELY marked as a zero. Assignments missed due to unexcused absences are considered late. It is important that you and your parent turn in ALL excused notes to the front office as soon as possible. Once a late or missing assignment has been turned in, please allow up to five working days for the assignment to be reflected in the gradebook.

**Plagiarism and Cheating**

In this increasingly technological society, it is becoming easier and easier for students to plagiarize assignments or “cheat” on quizzes and tests. We will be using a variety of in class technologies that lend to the possibility of cheating. CHEATING WILL NOT BE TOLERATED! This includes, but is not limited to:

* + 1. Completing an assignment for a student other than yourself
    2. Copying someone’s assignment and turning it in as your own
    3. Editing another student’s work without their permission
    4. Copying work done on websites and submitting it as your work
    5. Using unauthorized websites during assignments

**Consequences for cheating include, but are not limited to, an AUTOMATIC REFERRAL, half-credit on a makeup assignment, and phone call home for all students involved. Please consult the plagiarism section of the Student Handbook for consequences for plagiarism.**

**Additional Study Help**

* Additional tutoring is available after school on Tuesdays and Thursdays from 2:45 – 3:15 PM by appointment.

**Tech Support**

I am not a computer expert. However, as a 1:1 campus with all students having devices, technology problems do happen, and I will try my best to fix them. In the event of an issue, try the following:

* Log out COMPLETELY then log back in
* Shut down COMPLETELY then log back in
* Charge the laptop for 30 minutes, then restart the device

If these tips do NOT fix the issue, help desk hours are from \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_. Immediate issues should be reported to \_\_\_\_\_\_\_\_\_\_.

For issues with websites or virtual assignments, please contact me via email or phone.

**IPC Syllabus Contract**

**Student (LEGAL First Last) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Preferred: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, am the parent or legal guardian of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, a student at Santa Fe High School enrolled in IPC. My child and I have read and understand the syllabus. My child and I understand that this syllabus is an agreement between the teacher and the student. By signing, my child and I agree without contest to ALL of the terms described in this document. My child and I also understand that we are expected to follow all rules and guidelines discussed in this syllabus and the Santa Fe ISD Student Code of Conduct.

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Student Signature Date

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Legal Guardian Signature Date

**Home Internet Use Policy**

I understand that this course may require online use at home. I have access to the internet outside of school, and I understand that Mr. Childs will NOT provide additional time for assignments due to lack of technology in the home as all students are provided district devices. If an occasion should arise that I lose internet access outside of school, I will make arrangements with Mr. Childs to complete my work safely. I also understand that if I do not have reliable internet access at home, I can contact the school district for a mobile data hotspot.

**Student Initials: \_\_\_\_\_\_\_ Parent Initials: \_\_\_\_\_\_\_**

**Legal Guardian Contact Information**

Please include your contact information. Mark your PREFERRED contact method and PREFERRED contact times.

Contact Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Relationship: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_ Phone (with area code): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_ Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Preferred contact method:** E-mail Phone Remind (text)

**Contact time (circle):** Morning (6:30-9:00 AM) Lunch (12:30-1:00 PM) Afternoon (3:00-5:00 PM)

**Preferred Contact Day(s)** (circle): Monday Tuesday Wednesday Thursday Friday

**Medical:** List of allergies and relevant medical conditions. Include relevant FOOD allergies as well.

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