**Physics in the Universe**

**Class Syllabus**

**Teacher**: Ms. Nina Collins

**Google Classroom Code**: 7kiiqql

**Email**: nina-collins@scusd.edu

**Course Description**: This course focuses on the forces, interactions and attractions

between objects, energy and wave properties The course begins with a foundation of Newton’s Laws as a baseline for describing the motion and interactions between objects including Newton’s Law of Gravitation (macro-level) leading to investigating electromagnetism

and attraction at the particle level using Columb’s Law. Students will then be able to describe and apply the definition of energy, energy transformation, energy conversion and wave properties by investigating the effects of energy on the forces and motion of matter. This course has a prominent laboratory component.

**Textbook**: STEMScopes Physics in the Universe by Accelerate Learning, Inc.

**Course Outline:**

Unit 1: Newton’s Laws

Unit 2: Momentum

Unit 3: Gravitational & Electrostatic Forces

Unit 4: Kepler’s Laws

Unit 5: Interaction of Forces

Unit 6: Energy

Unit 7: Earth Science

Unit 8: Nuclear Processes

Unit 9: Waves

Unit 10: Stars

**Supplies**: Every student needs a scientific calculator, composition notebook (the sewn kind), paper and pencils.

**Grading Scale**: This class uses the SCUSD high school grading scale.

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| --- | --- | --- |
| **Grade** | **Percentage** | Per SCUSD policy, the lowest grade possible on any assignment or in any course is 50%. |
| A | 90 – 100% |
| B | 80 – 89% |
| C | 70 – 79% |
| D | 60 – 69% |
| F | 50 – 59% |

**Grade Calculation**: A student’s grade is made up of three areas:

|  |  |  |
| --- | --- | --- |
| **Category** | **Percentage of Total Grade** | Suppose a student has earned the following percentages: Tests/Quizzes: 72%, Classwork/Homework: 85%, Collaborative Practice: 90%.  What overall grade would this student receive?  (0.72)(0.40)+(0.85)(0.30)+(0.90)(0.30) =  0.288 + 0.255 + 0.270 = 0.813 or 81.3% or a B |
| Tests/Quizzes | 40% |
| Classwork/Homework | 30% |
| Collaborative Practice | 30% |

Grades are updated weekly in Infinite Campus. Students and guardians are highly encouraged to track grades regularly through the Infinite Campus portal. Ms. Collins is also more than happy to provide a grade printout at any time when requested.

**Make-up Policy**: It is the student’s responsibility to find out what he/she missed and to turn it in to the teacher within three days of the date of absence.

**Late Work:** Late work is accepted only under emergency circumstances.

**Cell Phone Policy:** Cell phones are a distraction from our learning. Therefore, there are

absolutely no phones or earbuds/earphones allowed during class time. Phones are to be OFF and AWAY. That means I can’t hear them or see them. On the desk/in your lap is not acceptable! If a cell phone is confiscated, it will be delivered to the front office for the student to retrieve after school hours.

**Class Rules**: \*\*Rules may be added or changed at any time.\*\*

1. No eating or drinking in class. Water in a closed container is okay. Food/drink on desk is not acceptable! Put it away or throw it away.
2. Come in and go directly to your seat and sit down. Sit facing forward, with your feet and knees under the desk.
3. Ask permission before leaving your seat.
4. Raise your hand to ask a question or make a comment. No talking to your seat mate unless it is group or partner work time.
5. Bring materials to class every day. This includes notebook, paper, and pencil or pen.
6. Request missing work on the first day back after an absence. It is not the responsibility of anyone else to track your absences or get you caught up.
7. No throwing any object, ever.
8. You must engage with the work and be on-task. This includes taking notes and turning in assignments. Assignments turned in must be complete and show all work.
9. All work turned in must be your own. No copying or plagiarism will be tolerated. Giving answers or help on quizzes and/or tests is also cheating.
10. The teacher dismisses you, not the bell. No lining up at the door.
11. We treat each other with respect. Discriminatory language will not be tolerated.

A classroom is community of students coming together with the common goal of learning. Here we are free to try, to strive, to fail, and to learn from our mistakes. We work to help each other to achieve together what we can’t on our own.

I have read and understand the information in the course syllabus provided by the teacher.

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|  |  |
| Student Signature | Date |

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| --- | --- |
|  |  |
| Parent Signature | Date |

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| --- | --- | --- | --- | --- | --- |
| I would like to receive a regular email update on class activities and assignments | | Yes |  | No |  |
| Parent email address |  | | | | |