Earth & Space Science Syllabus

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**My Philosophy:** Students in my classroom will be active learners that think critically, communicate their ideas, collaborate with their peers, and who create their own scientific ideas about the world around them. I am responsible to provide you with many ways to learn and apply the material, but ultimately you are responsible for your own learning and success in this class.

**My Course Description:** Earth & Space Science is a physical science that studies the dynamic processes that shape our planet earth as well as investigates our place in our galaxy and our universe. Earth & Space Science is a discipline of science that interacts with other sciences to understand our planet and in this course we will be investigating astronomy, geology, meteorology, and oceanography to better understand what makes our Earth so unique. We will be accomplishing this by taking an in depth look at the history behind earth astronomy and geology, recreating a timeline that helped develop this science, recreating the experiments done by scientists in the field that helped develop the sciences by conducting field work observation assignments which require students to explore the physical (astronomical & geological) world around them, investigating and debating their controversial uses and misuses in Socratic Seminars, researching the latest missions and discoveries as published by NASA, JPL, USGS and other organizations dedicated to understanding our physical world, visiting museums, building scientific tools for our own investigations and finally, we will be questioning ourselves and our beliefs about how our physical world affects us in the process.

**Our Classroom Rules:**

1. Be in your assigned seat and ready to work when the bell rings.
2. Bring required books and materials to every class, unless told otherwise by the teacher.
   Science journals are to be brought EVERY day to class.
3. Always raise hand to speak.
4. Follow directions the first time they are given, but ask questions if you are unclear.
5. Turn assignments in on time.
6. Treat everyone and their property respectfully including mine and our school’s. (*Failure to follow these rules will result in loss of points*)

**Consequences of Violation of Our Rules:**

- Rule broken 1\(^{st}\) time: *Verbal warning and call home.*
- Rule broken 2\(^{nd}\) time: *Teacher/student conference and parent or guardian contacted.*
- Rule broken 3\(^{rd}\) time: *After school detention. Parent or guardian contacted.*
- Rule broken 4\(^{th}\) time: *Referral to principal and/or counselor. Parent, student, and teacher conference.*
Materials:

(You are required to bring the following to class EVERY DAY!)

1. Science journals (Composition Books which are to be purchased by students).
2. Paper, pencils/pens, glue sticks.
3. Highlighters (Yellow, Orange, Pink, Green, Blue, Purple) *(Failure to bring these materials will result in loss of points)*

Objectives/Goals:

- Teach students practical scientific skills, which they can use to investigate, study and explain the world around them.
- Give students a deeper understanding of the how Astronomy & Geology impacts their daily lives, as the science of Earth Science.
- To encourage the spirit of scientific investigation.
- To teach students to understand patterns in the natural world based on observations and to use those patterns to predict what will occur next in the natural world…SCIENCE!

Daily Participation: Students will be given daily participation points in the form of daily “Quick-Writes” which require students to answer daily questions based on the previous days lessons, homework, or warm-up exercises. Only students who are on time, present (not absent), focused and prepared will receive daily participation points.

Absences: All students are required to attend school. If an absence occurs, the student will have one day to make up any missing work if the absence is a medical excuse only. If the student misses more than one excused day, he/she must discuss with the teacher how and when to make up missing work. The student is expected to hand in any work that was due on the date missed as soon as the student returns to school. Zeros will be given for all unexcused absences. It is your responsibility to obtain any make-up work.

Assignments: Students are expected to turn in all work when it is due for full credit. *If a student needs to know what assignments are due, they or their parent can view them all on my website under my Assignment Calendar on our school’s webpage*. NO LATE WORK! NO EXCEPTIONS! BE RESPONSIBLE FOR YOUR EDUCATION!

Tests/Projects/Papers: Students will be given 1 midterm and 1 final per semester. Students will be allowed to make up a test on THEIR OWN TIME *if and only if they miss it due to an excused medical reason and provide a medical note ONLY*. Only 2 medical excuses will be given all semester. NO EXCEPTIONS! Dates and times to make up a test will be announced by the teacher. If a student fails to make-up the test at the announced date and time he/she will receive a zero. Students will turn in all projects, posters, models, and reports in the “*Turn In*” bin on time. Students will pick up all their work once it has been graded from the “*Pick Up*” bin. Projects or Papers can be turned in late only *if and only if* they miss class due to a medical reason and provide a medical note.

Cheating: Cheating will not be tolerated in my classroom and will result in a zero on any test, quiz, lab, homework, or assignment. Any student caught copying will also receive a zero along with the student they are copying from.

Cell phones & Electronics: All electronics will be turned off or turned to silent mode and may not be used any time during class. NO EXCEPTIONS!
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<thead>
<tr>
<th>Dates</th>
<th>Unit</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>August-September</td>
<td>Investigation &amp; Experimentation</td>
<td>None</td>
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<tr>
<td>September-December</td>
<td>Astronomy</td>
<td>Chapter 22: Origin of Modern Astronomy</td>
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<td>Chapter 23: Touring Our Solar System</td>
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<td>Chapter 24: Studying the Sun</td>
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<td>Chapter 25: Beyond Our Solar System</td>
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<td>January</td>
<td>What is Earth Science?</td>
<td>Chapter 1: Introduction to Earth Science</td>
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<td>Chapter 4: Earth's Resources</td>
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<td>January-February</td>
<td>Minerals</td>
<td>Chapter 2: Minerals</td>
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<td>February-March</td>
<td>Rocks</td>
<td>Chapter 3: Rocks</td>
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<td>March-April</td>
<td>Earth's History &amp; Geologic Time</td>
<td>Chapter 12: Geologic Time</td>
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<td>Chapter 13: Earth's History</td>
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<td>April-May</td>
<td>Earth's Interior</td>
<td>Chapter 8: Earthquakes and Earth's Interior</td>
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<td>Chapter 9: Plate Tectonics</td>
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<td>Chapter 10: Volcanoes and Other Igneous Activity</td>
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<td>Chapter 11: Mountain Building</td>
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<td>May-June</td>
<td>Landform Morphology</td>
<td>Chapter 5: Weathering, Soil, and Mass Movements</td>
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<td>Chapter 6: Running Water and Groundwater</td>
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<td>Chapter 7: Glaciers, Deserts, and Wind</td>
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<td><em>If time allows</em></td>
<td>Meteorology</td>
<td>Chapter 17: The Atmosphere: Structure and Temperature</td>
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<td>Chapter 18: Moisture, Clouds, and Precipitation</td>
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<td>Chapter 19: Air Pressure and Wind</td>
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<td>Chapter 20: Weather Patterns and Severe Storms</td>
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<td>Chapter 21: Climate</td>
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*If time allows*

Oceanography

Chapter 14: The Ocean Floor
Chapter 15: Ocean Water and Ocean Life
Chapter 16: The Dynamic Ocean

Grades:

40% Science Notebook (classwork/labs/reflections/fieldwork/charts/diagrams/notes)
30% Test/Projects/Research papers
10% Quizzes/Assignments
20% Final

Grading Scale

100%-90% = A
89%-80% = B
79%-70% = C
69% - 60 = D
59% - lower = F

Earth & Space Science Class Contract

I have read the entire syllabus and understand and agree to follow its rules and consequences this school year in Mr. Trujillo’s Earth & Space science class.

Student Name (Please print): ____________________________________ Period: ___________
Student Signature: ________________________________________________
Home Telephone Number: __________________________________________
Parent/Guardian’s Name (Please print): _______________________________
Parent/Guardian’s Signature: _______________________________________
E-mail (Optional): _________________________________________________