**Fall/Spring 2012-2013 Kickapoo High School Instructor:** Mr. Snyder

**Availability**: 7:15-7:45am or 3:00-3:30 pm Monday-Friday or by appt.

**Conference Hours:** 1:30pm- 3:00pm Monday through Friday

**Contact Information:** School: (417) 523-8500 Room: S206 (417) 523-8686

**Email:**  rsnyder2@spsmail.org Twitter: @rsnyder2

**Course Website:** <http://rsnyder20.tripod.com>

**Credit:** 1.0 credit hour Springfield Public Schools

**Required Textbook:** McDougal Littell Earth Science

**Course Description**: Earth/Space Science is a laboratory course that integrates the study of Earth with the characteristics of the solar system and builds upon those concepts introduced in middle school science courses. The study of the Earth will include its history, composition, structure, atmosphere, and place in the universe. The characteristics of the solar system include the motion of the universe and its structures. The tools required for space exploration will also be studied. Prerequisite: Integrated Science

**Course Objectives:** Earth/Space Science is designed to provide educational opportunities for those students interested in the disciplines of Earth Science. This course will focus on the Earth Sciences and their relationships to Missouri. Students will be involved in a wealth of hands-on activities in which the study of the environment will be the main focus. Students will also learn to model, map, and explore our planet through varied perspectives. Students will be inquiring into the many aspects of our planet and will be completing lab reports and research projects that will be typed to specific guidelines and analysis of data will be addressed. **Students are expected to use complete sentences, proper grammar, and correct spelling in every type of written performance. Plagiarism** on any report or research paper will not be tolerated and will be given the grade of 0.

**Grading Scale:** The numerical range represents a percent and a score of .5 will be rounded up (92.5 = A; 92.4 = A-).

 A 93 - 100

 A- 90 - 92

 B+ 87 - 89

 B 83 - 86

 B- 80 - 82

 C+ 77 - 79

 C 73 - 76

 C- 70 - 72

 D+ 67 - 69

 D 63 - 66

 D- 60 - 62

 F Below 60

**Grading System:** The Grading system for this class will be based upon a weighted scoring system. The following will apply:

 Tests 40%

Labs 25%

Projects 10%

Final Exam 20%

Participation 5% (based upon class participation, attendance, involvement in class discussions, preparedness, wise use of class time, etc….)

**Late Work**: **Late work (lab reports, projects, etc.) will not be accepted**. If you know that you will be absent for a long period of time (e.g., due to an illness), let me know so that we can make arrangements for class notes and the turning in of assignments.

**Attendance**: Daily attendance will be taken. The majority of the material for lab activities and tests will be taken from class notes. Therefore, it will be in your best interest to attend each class. Excessive absence will be noted, and will not reflect favorably in your final grade (e.g., borderline between two grades). Please see attached handout for the Attendance and Tardy Policy at Kickapoo High School.

**Make-Up Labs and Quizzes**: If you know you won’t be able to take a scheduled quiz or perform a lab activity, you must let me know ahead of time so that arrangements can be made to take a make up. Of course, a valid excuse will be needed to take a make up a quiz.

**Attendance Incentives**

**100% Attendance** – If a student has 100% attendance in a class for the entire term, 10% will be added to his/her final exam grade

**95 - 99% Attendance** – If a student has 95-99% attendance in a class for the entire term, 5% will be added to his/her final exam grade

Dual-enrolled classes: Due to the fact that colleges will not allow extra credit to be added, teachers of dual-enrolled classes will have the option to figure two grades; one for the college and one for the high school transcript..

Eighth semester seniors may opt out of any final if they have an “A” or an “A-“ in the course prior to the final examinations.

**Statement on Academic Dishonesty**

Academic honesty is expected in all classes at KHS. Cheating will not be tolerated. Violations of academic honesty include, but are not limited to, copying, allowing copying of paper, cheat sheets, using technology to transmit or receive information, grading incorrectly, plagiarism, and self plagiarizing. Plagiarism is the theft of ideas, writings, or words of another person and passing this information off as one’s own. Self plagiarism is completing an original paper for one class then turning in the same paper for another class without permission. Papers may be checked by the teacher using plagiarism detection software. Any student cheating will be subject to academic and/or disciplinary penalties. Consequences will include 1) a zero (0) on the assignment,. 2) the offense will be reported to a school counselor and 3) a parent will be notified.

**Course Outline**

This course will follow an outline in which you will be able to build upon your knowledge of Earth Science and construct an understanding of how our planet influences the biosphere. A weekly course outline can be obtained at <http://rsnyder20.tripod.com>

**Field Trips**

There may be opportunities for field trips to enhance the educational experiences in this course. Students will be informed of these opportunities as soon as established dates become available.

**Classroom Materials**

For successful completion of this class you will need to bring to class every day something to write with (preferably both pen and pencil), a notebook/ 3 ring binder (for notes and handouts) and a calculator (scientific, but not the super expensive ones). The purchase of colored pencils and a drawing compass are also highly recommended.

**Class Expectations/ Behaviors**

Earth/Space Science is a fun and interesting science that is best studied outdoors. It is quite often that the student will be conducting research activities outside of the classroom, not within the sight of the instructor. It is expected that each student act responsibly and respectful when performing such activities. Any misbehavior or lack of responsibility WILL NOT be tolerated and will be dealt with accordingly. **Food and Drinks are not permitted when conducting lab activities.** Going to the restroom should be conducted during passing period, but, there are two restroom passes provided by Mr. Snyder. If those passes are out, you must wait until a student returns to use the restroom.

**Class Participation**

Since class participation is an important part of this course and final grade, good attendance is vital for effective learning and academic progress. 5% of your semester grade may be determined by class participation. Class participation includes such factors as attendance, punctuality, preparation, contribution to the learning environment, and a cooperative attitude

**Seals of Excellence Standards**

To be eligible for a Seals of Excellence, the student must:

* Scoring of Proficient or Advanced on the MAP test
* Complete 4 or more science courses
* Have a GPA of 4.0 for science courses completed
* Have one or more entries in a science contest
* Be involved in extracurricular activities

**Extra-Curricular Science Activities**

The Science department at Kickapoo High school offers many extra-curricular opportunities that will benefit the student interested in all areas of science. By contacting any science teacher, you can find out about the opportunities to participate in programs such as:

* Science Olympiad
* Environmental Club
* Jets (Physics Team)
* Ozarks Science and Engineering Fair
* Lunar and Mars Research Teams
* Team America Rocket Challenge Teams

**Tardy policy**

See the posted tardy policy in the classroom for the current tardy policy for Kickapoo High School.

**Electronic Devices**

The rules in all Springfield Public Schools regarding electronic devices read as follows:

*"The possession of laser pointers and other unsafe electronic items are prohibited in the school building.* ***All other electronic devices, such as, but not limited to,  cell phones, pagers, PDA's, head phones, IPODs/MP3 players may be in the student's possession as long as they are not disruptive of the educational process or in violation of site use procedures.  The school district will not be responsible for lost or stolen items****."*

**Cellular Phones**

Students are not allowed to use or display cell phones during the class time.  If they choose to disregard this rule, they will be disciplined according to site scope and sequence.

If a parent has a need to reach a student during the school day, he or she should call the office and we will make every attempt to deliver the message.  If parents have a need to call on a student’s cell phone to leave a message during the day they are free to do so.  However, students cannot check for messages during class time.

If a student is in the hallway or in class and remembers that the cell phone is turned on, the student should approach the teacher and ask permission from the teacher to turn it off.  Providing the student has followed the appropriate procedure, the teacher should allow the student to turn off the phone without penalty.

If a student forgets to turn off a cell phone and it rings or vibrates during class, the student should ask the teacher’s permission to turn it off.  The student may also be subject to the teacher’s classroom discipline procedures.

\*\*\*Note: In this course, there will be times that students are permitted/ expected to use cell phones during the class period. This course is technology based and the downloading of FREE Applications (APPS) on Smart Phones will be used to take quizzes and class activities. Additionally, smart phones are equipped with cameras that may be used to take pictures of lab activities to enhance and support laboratory write-ups. Please see the additional cell phone agreement at the end of this syllabus

**Chief Time (student intervention/privilege time)**

Chief Time will take place for 30 minutes one time a week during this class: 1st block on Monday; 2nd block on Tuesday, 3rd block on Wednesday and 4th block on Thursday. Students who have earned privileges will be allowed to travel for those 30 minutes UNLESS the class is during 3rd block. All students may travel to the library, academic lab, or another teacher for assistance IF they have obtained a pass previous to the start of class. Students will be expected to either **work on school work** or **read** during the designated 30 minutes of Chief Time.

 **Syllabus Signoff Form**

This signature certifies that I and my parent(s) have thoroughly read and understand the material within the syllabus and that I am bound to all rules and regulations within.

Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Student) Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Parent) Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Best method of parent Contact: Phone: Email:

(Circle most preferred)

**Classroom and Lab Safety Student/ Parent Contract**

**QUESTIONS  (answers are confidential)**

|  |  |  |
| --- | --- | --- |
|  36.  Do you wear contact lenses? |  Yes\_\_\_\_\_\_\_ |  No\_\_\_\_\_\_ |
|  37.  Are you color blind?  |  Yes \_\_\_\_\_\_\_ |  No\_\_\_\_\_\_ |
|  38.  Do you have allergies? |  Yes \_\_\_\_\_\_\_ |  No \_\_\_\_\_\_ |

     If so, please list specific allergies

**AGREEMENT**

|  |
| --- |
|    I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (student's name) have read and agree to follow all of the safety rules set forth in this contract.  I realize that I must obey these rules to insure my own safety and that of my fellow students and teachers.  I will cooperate to the fullest extent with my instructor and fellow students to maintain a safe science lab environment.  I will also closely follow the oral and written instructions provided by the instructor.  I am aware that any violation of this safety contract that results in unsafe conduct in the laboratory or misbehavior on my part, may result in my being removed from classroom, detention, receiving a failing grade, and/or further disciplinary action. |
|   |   |   |
|  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |   |  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  Student signature  |   |  Date |

|  |
| --- |
| Dear Parent or Guardian:We feel that you should be informed regarding Kickapoo High School's effort to create and maintain a safe science classroom and laboratory environment. With the cooperation of the teachers, parents, and students, a safety instruction program can eliminate, prevent, and correct possible hazards.  You should be aware of the safety instructions your son or daughter will receive before engaging in any laboratory work.  Please read the list of safety rules above.  Student participation in laboratory activities will be restricted until this contract is signed by both the student and parent/guardian and is on file with the teacher. Your signature on this contract indicates that you have read this Student Safety Contract, are aware of the measures taken to insure the safety of your son or daughter in the science classroom and laboratory and that you will instruct your son or daughter to uphold his or her agreement to follow these rules and procedures in the classroom laboratory.  |
|   |   |   |
|  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |   |  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  Signature - Parent/Guardian |   |  Date |

**Student Parent School Cell Phone Agreement**

**STUDENT/PARENT CONTRACT**

This contract concerns the presence and use of cellular telephones and other electronic signaling devices in **Mr. Snyder’s classroom**. Cell phones on campus falls under the district Board policy outlined in the Student Handbook. Signing these forms is an acknowledgment that both parent and child have read and understand the policy and agree to abide by it. All cell phones must be registered with Mr. Snyder to use in the class as a precaution. If a student is found in possession of a cell phone without these forms having been completed, his or her cell phone privileges in Mr. Snyder’s classroom will be revoked for the remainder of the school year.

STUDENT CONTRACT

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, understand that possessing and using a cell phone in Mr. Snyder’s classroom is a privilege, not a right, and that permission may be revoked at any time if the classroom or school policies are violated. I have read the student handbook and the syllabus regarding cell phone policy and agree to its provisions. Additionally, I acknowledge that the school and its staff are not responsible for loss, theft, or damage to my cell phone and furthermore will not dedicate its resources to investigating loss, theft or damage.

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

PARENT CONTRACT

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, agree to allow my child to possess a cell phone in Mr. Snyder’s classroom. I acknowledge that the school and its staff are not responsible for loss, theft, or damage to the cell phone and furthermore will not dedicate its resources to investigating loss, theft or damage. I have read the student handbook regarding cell phone policy and agree to its provisions. If my child’s phone is confiscated due to policy violation, I acknowledge that I must come to the school to retrieve it at the convenience of Mr. Snyder.

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

**PERSONAL CELL PHONE INFORMATION**

Cell Phone Manufacturer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Model \_\_\_\_\_\_\_\_\_\_ Color \_\_\_\_\_\_\_\_\_

Phone number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (this is optional as I do not need the phone number to operate or identify the APPs that we use for class purposes.

 (If a new cell phone is obtained, immediately get a new form from Mr. Snyder to update or the contract will be void and privileges revoked.)

**Very Tentative Course Schedule**

3rd quarter

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Date**  | **Topic**  | **Assignments** |
| **.5** | **Jan** **2-4** | Introduction to Earth Science and the Scientific Method  | The Density of an Earth Material Lab Report (15 pts)Solving Geologic Problems- How Fast was the Kay. Minor Lab Report (15 points)  |
| **1** | **Jan****7-11** | Origins- The Evolution of Earth When Life Nearly Died- Impacts and Mass Extinctions | Deep Impact- Analyzing the Formation of Impact Craters Lab Report (15 points)  |
| **2** | **Jan 14-18** | Earth’s Buried Treasures- Minerals and Mineral Resources  | Mineral Identification Lab (40 points) |
| **3** | **Jan 21-25** | **Mon Jan 21- No School****Tue Jan 22- Unit Exam 1 (100 points)**Volcanic Stones- The Origins of Magma and Igneous Rocks | Cooling Rate and the Texture of an Igneous Rock Lab report (15 points)  |
| **4** | **Jan 28-Feb 1** | Volcanic Stones- The Origins of Magma and Igneous Rocks Thermal Unrest- Intrusive Environments, Volcanoes, and Volcanic Hazards | Igneous Rock Identification Lab (40 points) The Viscosity of Magma Lab Report (15 points)  |
| **5** | **Feb** **4-8** | The Secrets of Supervolcanoes- A Yellowstone Super-Eruption**Fri. Feb. 8 Unit Exam 2 (100 points)** | *Supervolcano* Video Review (15 points) Volcano Project (100 points)  |
| **6** | **Feb 12-14** | The Origins of Sediments and Sedimentary Rocks | Sedimentary Rock Identification Lab (40 points)  |
| **7** | **Feb 18-22** | **Mon Feb 18- No School**Natural Resources and Sedimentary Rocks | You be the Geologist: Locating and Extracting Natural Resources Lab (15 points)*Gasland* Video Review (15 points)   |
| **8** | **Feb 25-29** | Making New Rocks from Old- The Origins of Metamorphic Rocks Which Came First? The Geologic History of Earth | Metamorphic Rocks Identification Lab(20 points)The Dating of Rocks, Fossils and Geologic Events Lab (40 points)  |
| **9** | **Mar** **4- 8** | **Tues. Mar 5- Field Trip****Thur. Mar 7 Conprehensive Midterm Exam (100 points)** **Friday Mar 8- No School (End of quarter)** | Geologic Interpretation of an Outcrop Project (60 points) |
| **10** | **Mar 11-15** | **No Classes- Spring Break** |  |

4th quarter

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Date**  | **Topic**  | **Assignments** |
| **1** | **Mar** **18-22** | The Birth of a Theory- Continental Drift and Plate Tectonics  | Seeing What You Can’t “See”- Mapping the Ocean Floor Lab (15 points)Documenting Plate Tectonics (15 points)  |
| **2** | **Mar** **25- 29** | Shake, Rattle, and Roll- The Geologic Hazards of Earthquakes | Locating an Earthquake Epicenter (15 points)The Liquifaction of Soils Lab Report (15 points)  |
| **3** | **Apr****1- 5** | Shake, Rattle, and Roll- The Geologic Hazards of Earthquakes**Friday Apr 5- Unit Exam 3 (100 points)** | Tsunami- Wave of Destruction Lab Report (15 points) Earthquake Mitigation- Designing an Earthquake Resistant Building Project (100 points)  |
| **4** | **Apr****8-12** | Mystery of the Megaflood- Water Shaping the Earth’s Surface | The Mystery of the Channeled Scablands Stream Table Lab (15 points) *Mystery of the Megaflood* Video Review (40 points)  |
| **5** | **Apr 15- 19** |  Snowball Earth- Ice Shaping the Earth’s Surface  | Glacial Flow Lab Report (15 points)  |
| **6** | **Apr****22- 26** | Water Shaping the Subsurface- Groundwater, Caves, and Karst | Porosity and Permeability (15 points)Groundwater Contamination Lab Report  (15 points)  |
| **7** | **Apr** **29- May 3** | The Secrets of Yellowstone- Geysers and Hotsprings**Fri. May 3- Unit Exam 4 (100 points)** | Geyser lab (15 points) Cave Project (40 points |
| **8** | **May****6-10**  | Climate, Weather, and Geology**Wed. May 8- Seniors Comprehensive Final Exam (100 points)** **Fri. May 10- Senior Graduation**  |  The Differential Heating of the Earth Lab Report (15 points) (Seniors Exempt) |
| **9** | **May** **13-17** | Global Climate and Global Climate Change  | Global Climate and Global Climate Change Lab Report (40 points)  |
| **10** | **May** **20-23** | **Comprehensive Final Exams (100 points)** |  |