Syllabus Physical Sciences 2021-2022
Ms. Kunstetter

How To Reach Me

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Dear parents

Please take a moment to read through the syllabus. Should you have any questions, feel free to contact me.

Course description

This course is an overview of physical science topics, including foundations of scientific investigation, introductory chemistry and introductory physics. Topics covered will include:

- Engineering practices and scientific methods
- Motion, forces, Newton's Laws of motion
- Gravity, electricity and magnetisms
- Mater and properties of matter
- Atomic models and periodic table
- Compounds, bonding and chemical reactions
- Energy and waves, electricity and magnetism.

The course will include application of the scientific method through a student science fair project during the third trimester.

Required materials

- Composition book OR single subject notebook AND a binder exclusive for the class
- Pencils and pens
- Planner

Grade Breakdown

Daily classwork (15%)

Assignments given to students to be during class. Daily classwork will include readings, video analysis, lab worksheets and textbook worksheets. Students may take home a classwork and return the completed work on the BEGNING of the next class time. Students are expected keep all classwork in their portfolio.

Portfolio (20%)

Student's portfolio compromise all class notes, classwork, and assessments kept in a binder in chronological order. Student's portfolio will be checked by organization and completeness. Students will be provided with a list of all content that should be in the portfolio prior to the date of portfolio checking.

Lab/Project (20%)

Students will complete lab reports or science projects during class time. Projects and labs will be graded using project/lab rubric provided to students along with the assignment. All projects and lab should be completed individually during class time. Incomplete lab reports and projects can be finished as homework but will still be graded as lab/project.

Assessment (20%)

Quizzes, multiple-format test will be complete bi-weekly to assess students' comprehension of concepts and vocabulary. Assessments will be open note and must be completed individually during class time.

Finals(25%)

Finals will cover all content of the trimester. Finals may be a project or exam. Exams must be completed individually during class time.

Extra credit

Extra credit may be provided to students before the end of the trimester to complement finals, project or assessments grades. Extra credit opportunities will be provided to students that have a complete portfolio.

Students are expected to turn in all assignments by the due date. Please spoke to me for extension on due dates.

All paper assignments will be placed turned in on hands to the teacher by the due date. Assignments on computer will be submitted online by the due date.

Class rules and expectations

YOU MUST ABIDE BY THE RULES AND REGULATIONS OF JAMES MADISON PREPARATORY SCHOOL AS STATED IN THE FAMILY HANDBOOK.

Be Respectful

Maintain a respectful and positive attitude. You are expected to be respectful and courteous towards the teacher and towards your classmates.

- Listen and follow directions.
- Use respectful and school appropriate language.
- Keep voice levels as directed by the teacher.
- Raise your hand to speak.
- Be quiet when the teacher or your classmate is talking.
- Keep all classroom materials organized in the proper place.
- Respect other's materials and space.

Be Responsible

Be proactive and organized. Take responsibility for your own learning! BE ON TIME!

- Complete all work assign to you by the due date.
- Manage your time to make sure you complete all your work.
- Complete homework and missed work promptly.
- If you were absent check with your teacher for any missing assignments
- Keep an organized and completed portfolio with all notes, assessments, and assignments.
- Bring all materials to class every day.

Communicate

Communicate with your teacher and classmates

- Engage in class discussion, labs and projects.
- Share your ideas, questions, and suggestions.
- Communicate with your teacher if you need extension of due date, or to report a problem in the classroom.
- The first step of any disciplinary action will be a conversation with your teacher.

Let's do it together!

- Be patience and comprehensive.
- Support and encourage other to do their best.
- Bring any suggestion that you think may improve all class environment!

CONSEQUENCES

The following consequences will be followed in order if expectations are not followed:

1. One-on-one verbal reminder
2. One-on-one verbal reminder and 5-min reflection
3. Ticket

Lab safety!

- You MUST learn and abide by all Laboratory Safety Rules. Violation of Laboratory Safety Rules will result in your removal from the lab and a Health/Safety ticket will be issued
- Drinks and food are not allowed in the lab

Classroom Procedures

1. Start of class

Entering the class

- Please walk into the classroom and go direct to your seat.
- Place backpacks or purses under your desk on the back of your chair.
- Keep a lower voice level.

Warm-ups

- Once seated, please have your notebook or your binder and complete the warm-up on the board.
- Please write down the warm-up questions written on the board.

2. Instruction time

- Be ready to take notes. Guided questions will be posted to assist you
- A complete note will be considered that addressed all guided questions.
- You may select how you would like to organize their notes.

EXPECTATIONS FOR INSTRUCTION TIME:

Silent

Actively listening and taking notes.

Rise your hand to ask questions.

3. Completing class assignments

- Class assignments may be a student handout, a book assignment, or a reading/video assignment.
- Wait for teacher instructions before start working.

EXPECTATIONS:

- Complete all work assigned to you and keep it in your portfolio.
- Students may work in pairs.
- Keep inside voices
- Stay on task.

4. Completing Lab assignments

- Lab will be completed in groups. Lab groups will be formed in advance and rotate every month.
- Wait for teacher instruction before starting. Teacher will instruct on how to complete the lab worksheet and review lab report expectations with the class.

* There may be a brief discussion review before the start of “hands-on” activities.

- Read all procedures and make sure will have all materials needed. Make sure you understand the procedures and the worksheet.
- Complete all work planned for the day. You may finish your lab report at home and bring on the beginning of next class time.
- Wear all your individual protective equipment (aprons, googles...) all the time
- Keep a clean and organized workspace. For safety, keep al chemicals and hazardous materials in the appropriate storage place.
- Once you group is done, clean up your area and return all material to the appropriate space. Review disposal instructions if working with chemicals.

5. Quizzes, tests, and exams

- Those assignments must be complete individually.

EXPECTATIONS:

Silent
Stay on your seat
Students are not allowed to help each other but they may use their notes during quizzes and tests (expect for final exam).

7. Completing group work or projects

- Wait for teacher instructions before start forming groups
- Form the group and write all names on the assignment or project.
- Find a place for you group to work separated from other groups.
- Have all materials needed on your working area. Make sure you read and understand the activities in the assignment.
- Keep your area organized and clean up after you are done.
- Keep inside voice levels and be respectful with you group mates.

8. End of the class

- Clean up your area and go back to your seat (if you have moved).
- **Homework: You be given to you once you have cleaned and organized your area.**
- Make sure you have all your materials.

9. Raise your hand and ask for permission to: go to the bathroom, sharp pencil, throw trash away. During group work students may move around the classroom without asking for permission.

All rules and procedures stated here as well as James Madison Preparatory School Code of Conduct will be enforced all times.

I have read and understand course syllabus. I agree to comply with all classroom rules and procedures and to communicate with the teacher if I had any suggestions, or problems with class rules and procedures

Student signature: _____