

Science 24
J.A. Williams High School
Course Outline 2018-2019

Ms. St. Louis
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Science 24 is a course that aims to help students learn about the science that impacts our lives every day. You will learn things that you might find useful, surprising, and maybe even a little bit interesting. **Prerequisites** for this course include one of the following: Science 10, Science 14, or Science 20-4.

Unit A: Matter and Chemical Change (Chapters 1-4)

Unit Test: September 28th

We will take a look at how advances in chemistry have made an impact in our everyday lives. We will also study common chemical reactions and their effects on our lives and the environment.

Unit B: Energy Transformations (Chapters 5-8)

Unit Test: October 29th

We will study the different forms of energy and the ways that they are converted from one form to another. Topics include mechanical energy, electricity, energy for life, and fossil fuels.

Unit C: Disease Defence and Human Health (Chapters 9-12)

Unit Test: November 22nd

We will learn about the causes of diseases, the effects of disease on society, and ways that you and your body can protect against disease. Genetics is also studied in this unit.

Unit D: Safety in Transportation(Chapters 13-16)

Unit Test: January 11th

This unit covers various topics relating to motor vehicle safety. These include causes, effects and prevention of accidents, the physics of speed and collisions, as well as safety technology.

Review/Final Exam: January 14th- January 30th

Equipment: Textbook (Science Connect 2), pen, pencil, binder, loose leaf paper, and a scientific calculator. All assignments should be completed in pencil with reasonable neatness.

Course Evaluation

This course consists of 4 units of study:

| Unit | Chapters | Evaluation |
|----------------------------------|-------------|------------|
| Matter and Chemical Change | 1,2,3,4 | 17.5 % |
| Energy Transformations | 5,6,7,8 | 17.5 % |
| Disease Defense and Human Health | 9,10,11, 12 | 17.5 % |
| Safety in Transportation | 13,14,15,16 | 17.5 % |

Each unit will be evaluated on the following basis:

| Unit Evaluation | Course Weighting (%) |
|--------------------|----------------------|
| Assignment/Labs | 30 |
| Quizzes/Unit Exams | 40 |
| Final Exam | 30 |

*****Students earning a mark of 80% or better may choose to be exempt from the final exam*****

- ❖ It is very important to keep a neat and organized binder. Chapter quizzes will be allowed one page of prepared notes for reference - ANYTHING from the course can be written on one standard size of white paper.

Science Department Expectations

Late Procedure

It is reasonable to expect each student to be punctual for each class period. Repeated lateness is disrespectful and discourteous and, if not corrected tends to become commonplace. Corrective action may include detention time, extra work or assignments, or in chronic situations referral to administration.

Absences

It is a student's responsibility to attend class. It is essential to success in this course. Unexcused absences will result in a phone call home, and if not corrected referral to administration. If you are absent from a class, it is your responsibility to meet with me to get caught up on missed assignments.

Late Assignments, Incomplete Assignments, and NHI's

The teacher will periodically accept late assignments and labs not previously handed in. This does not include assignments not handed in due to unexcused absences. The teacher deadline to accept late, incomplete and NHI assignments will be a window of opportunity at the end of a unit of work as specified by the individual teacher.

Students will be provided with 3 “Zero Days” throughout the semester which are an opportunity to complete a missed summative assessment or improve a previous mark. This assessment will then be graded and replace the students previous mark. The particular summative assessment desired to be redone or completed on the designated zero day will be at the discretion of the teacher.

Classroom Expectations

All students are expected to be respectful of both myself and other students in the classroom. This is a high school course and any disruptions or disrespect will not be tolerated. Respect in my classroom includes the following:

Positive Attitude towards Learning:

- Being ON TIME and PREPARED to learn.
- If you are aware of a day that you will be absent, for personal or school-related reasons, please inform me PRIOR to the absence and I will provide you with the work for that day. Students are still responsible for all work missed on such days.
- All students are in my classroom to LEARN and need to do so in an environment free of constant disruption. Collaboration with other students is encouraged however this work must be on task and not a distraction to other students.
- Cheating will NOT be tolerated. Any plagiarized or copied assignment will not be accepted and the student will be required to redo the assignment, including the person who allowed the copying to take place.
- Come see me at lunch or make an appointment if there is anything you need help with.
- Electronic devices such as cell phones and ipods are typically not allowed to be used in the classroom. If any cell phones or ipods (without special permission) are seen, they will be confiscated until the end of class.
- **Always do your best!**

Respect:

- Please do not interrupt when I am speaking
- Students are expected to be courteous and polite. Put downs and sarcasm will not be tolerated. If students cannot respect either myself or others and their behaviour becomes an issue, students will be asked to leave my classroom and we will arrange another time to make up for missed work.
- Class does not end until I dismiss you.

Safety:

- No food or beverages other than water in my classroom are allowed for safety purposes. During labs, no food or drinks are permitted.
- Follow classroom instructions carefully.
- Follow lab safety procedures and wear protective equipment at all times.
- Ask to leave the room so I am aware of your location at all times.
- When in doubt, ASK!