

# Science

## 8<sup>th</sup> Grade

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Ms. Truemper

Tel: 630-636-2562 (voicemail and homework hotline)

Email: [atruemper@sd308.org](mailto:atruemper@sd308.org)

Study sessions:

Tuesday and Thursday mornings 7:30-7:50 am or by appointment

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7. **Wash your hands with soap and water before leaving the laboratory.**
8. **Know the hazards of the materials used.** Read labels carefully to make sure you are using the right chemical. Use only the amounts called for in the procedure – more is NOT always better. Add acid to water, never the other way around.
9. **Never leave a flame unattended.**
10. **Anything you damage or break will be paid for by you.**
11. **Know the safety equipment.** Know the location of the eyewash fountain and safety shower, fire blankets, fire extinguishers, first aid kit, and emergency exits. Know how to use the safety equipment.
12. **Carry out the experiments assigned by your teacher.** Never perform unauthorized experiments.
13. **Never remove chemicals from the laboratory.**
14. **Never work in the laboratory unless authorized to do so by your teacher.** Never work alone in the laboratory. In case of a problem, you may need another person to prevent injury.
15. **Never engage in horseplay, games or pranks** in the laboratory. Remember that the laboratory is a place for serious work. Careless behavior can endanger you and others and will not be tolerated.
16. **Demonstrate safe behavior.** Obey all safety instructions given by your instructor or found in the experimental procedure. Clean up spills immediately if you know how. If you are uncertain how to clean up a spill or if a large spill occurs, notify your instructor immediately. Before leaving the laboratory, return equipment and chemicals to their proper places. Clean up your work area.
17. **Dispose of all waste materials according to your teacher's instruction.**
18. **Report any accidents or unsafe conditions to your teacher immediately.**



Topics of study:

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|-------------------------|---|
| 1 <sup>st</sup> quarter | Engineering Design<br>Electricity<br>Magnetism<br>Waves and Their Application |
| 2 <sup>nd</sup> quarter | Atomic Theory<br>Periodic Table Patterns<br>Chemical Reactions                |
| 3 <sup>rd</sup> quarter | Organic Chemistry<br>Heredity   |
| 4 <sup>th</sup> quarter | Weather<br>Astronomy<br>Technological design<br>– rocket unit                 |

Textbook Series:

Holt Science and Technology Short Course Books C, I, J, K, M, N, O

Online textbook and resources available at <http://my.hrw.com>

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Supply List: basic notebook or hardcover composition notebook, set of colored pencils, folder, loose-leaf paper, general scientific calculator (one from math is sufficient), black pens, pencils, ruler

Lab reports should be typed or hand-written in blue or black ink. The lab format and resources are available on the class webpage. Lab reports may be emailed to [atruemper@sd308.org](mailto:atruemper@sd308.org)

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## Safety Rules

Homework: Regular homework not turned in on the due date will receive a zero in the grade book. For late lab reports and projects there will be a 10% grade reduction for each day the work is late.

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Helpful strategies to use at home:

Check the class website for homework, notes, lab information and review games.

Set aside a specific study area with needed supplies.

Use lab rubric and website resources to help with lab reports.

Email teacher about any questions or concerns.

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### Classroom Rules for Room 2111F

1. Be ready on time with necessary materials
2. Be responsible for yourself and your belongings—observe all rules in the student handbook, complete all work, leave nothing behind or unfinished
3. Be a pro follow directions, take pride in your work (be neat and legible)
4. Be safe follow lab safety rules and use equipment properly
5. Be brave do not be afraid to take risks while learning
6. Be respectful of the people, equipment and furnishings in room 2111F
7. Believe in yourself.

If a class rule is broken...

First time: verbal warning in class

Second time: parent contact

After the second time: consequences will be based on the school discipline system

Working in a science laboratory is normally very safe. To ensure your personal safety and the safety of others you need to reduce the risks associated with laboratory work. Risk in the science lab can come from either physical or chemical hazards. By examining these hazards, you will understand why the following rules have been developed for working in scientific laboratories.

Chemical hazards include exposure to hazardous chemicals from absorption through skin or eye contact, inhalation, ingestion or injection. Physical hazards include falls, cuts, eye injury, electrical shock and fire.

1. **Protect your eyes.** Appropriate eye protection must be worn **at all times** in the laboratory whenever chemicals, heat, or glassware is used and other time the instructor believes is necessary. There will be no exceptions to this rule.
2. **Wear appropriate protective clothing and tie back loose hair.** Chemicals can burn or irritate the skin. Some chemicals are easily absorbed through the skin and enter your body. Laboratory aprons will be worn to protect clothing. Loose clothing should not be worn and long or loose hair should be pulled back because they may dip into chemicals or might catch on fire by falling into a flame.
3. **Wear shoes that cover your feet.** Sandals and open-toed shoes do not protect your feet from broken glass. Leather shoes protect your feet from chemical spills better than canvas shoes.
4. **Do not apply cosmetics, eat, drink or chew gum** in the laboratory. These are ways you could ingest harmful chemicals.
5. **Do not taste, touch or smell chemicals** unless specifically instructed to do so by your teacher. The proper technique for smelling a chemical is to fan the vapor (waft) to your nose.
6. **Never fill a pipette using your mouth,** use a rubber bulb.