



# EDGEWOOD CAMPUS SCHOOL

Ms. Carly Ziegler

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## 8TH GRADE PHYSICAL SCIENCE

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### LIMNOLOGY OF LAKE WINGRA

This year you will embark on a chemical analysis of the lake using limnological principles to guide your thinking. We will important questions about our role in the health of Lake Wingra and its watershed community.

### MATTER

Investigate the nature of matter as we explore how scientists classify matter and gather evidence for how matter changes. Knowing is not enough, we will be explaining how we know with hands on investigations.

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### PERIODIC TABLE OF ELEMENTS

The structure of the atom will be explored as we delve into the world of the elements. Molecular structure and bonding will be investigated and evidence will be gathered through hands on projects and investigations.

### CHEMICAL REACTIONS

Design and implement your own experiments in our beautiful lab to understand the nature of chemical reactions and how molecules are able to rearrange to make new products in this lab heavy unit focused on chemistry principles and lab safety.

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### FORCE AND MOTION

Explore principles of energy transfer and conservation, friction, power, speed and work as we engage with questions about the natural world. Using sports, we will gather evidence and draw conclusions about the nature of science.

### ENERGY AND CLIMATE CHANGE

Understanding the science behind climate change will influence our actions as we move forward. Your role in collecting and analyzing evidence will be critical in investigating forms of energy generation and conservation.

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## **Classroom Expectations**

- Be respectful of peers, teachers, classroom materials, and self
- Model a growth mindset for yourself and peers
- Food and gum restricted due to safety
- Water is permitted-- must be kept at seat
- Students responsible for lab clean up

## **Materials**

- Teacher website has daily updates for assignments and additional resources including notes, copies of lab investigations, and video support
- Lab notebook: A composition notebook will be used for lab investigation notes.
- Chromebook: You will create a digital lab notebook to upload photos, analyze your results, and keep track of important vocabulary.
- Folder: For loose hand outs, rubrics and readings. All handouts are also available on the classroom website

## **What should I bring to class everyday?**

- Lab notebook, Chromebook, folder, pencil, assignment notebook
- Your curious mind

## **Absence Policy**

- Check our classroom website for full policy. The overall idea is that we are preparing ourselves for high school. Students will take on the ownership of communicating about missing work and make up assignments, but parents should communicate with the office and teachers about absences. This is a learning process.

## **Grades**

Grades are based on both the quality of work and participation in class. RenWeb is updated after work is graded. Work turned in late will not be graded until time allows. Students can check with me regarding grades before or after school.

- Grades are separated into two categories: Achievement (60%) and Academic Behavior (40%)
- Achievement grades: These grades refer to anything that is graded for accuracy. Tests, quizzes, formal lab reports, or projects may be included in Achievement. The purpose of this grade is to reflect knowledge of material.
- Academic Behavior grades: These grades refer to participation and homework. Assignments in the Academic Behavior category are based on completion and effort, not accuracy. Lab behavior will be an important part of this.
- Tests and/or final projects will follow each unit.
- At the beginning of each unit, the Achievement grades will be discussed so students know what to expect.

## **Additional Information**

- I am always available for questions and additional support. Please reach out sooner rather than later.
- Listening, reading, participating, note taking, and curiosity are key skills necessary for success in this class.
- Bookmark our classroom website as it has a wealth of information on it and is available 24/7:  
<https://sites.google.com/edgewoodk8.com/ziegler>

**I have read the classroom syllabus, expectations, and procedures. I have also accessed our classroom website successfully. If I have any questions, I will contact Ms. Ziegler.**

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*Signature of Student*

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*Date*

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*Signature of Parent*

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*Date*