

## LHS Applied Science 2024-25

### Instructors:

- Mr. Paul Pack | Rm 107 | 324-4691 ext. 2308 | [paul.pack@lexschools.org](mailto:paul.pack@lexschools.org)
  - Mrs. Becky Archer | Rm 309 | 324-4691 ext. 2309 | [becky.archer@lexschools.org](mailto:becky.archer@lexschools.org) (1&4)
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### Course Overview

This entry-level science course provides hands-on instruction, focusing on the Scientific Method and introducing students to various branches of science. The course covers two broad topics:

1. **Inquiry, the Nature of Science, and Technology**
2. **Life Science**, including the structure and function of living systems, heredity, flow of matter and energy in ecosystems, and biodiversity.

The purpose of this class is to introduce students to basic scientific principles and prepare them for the ACT.

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### Materials Needed

- Folder labeled with the student's name, and class period.
  - Notebook with lined paper. OR
  - 3-ring binder with a supply of lined paper.
  - Pencils with erasers, black or blue pen, highlighter
  - School-issued planner
  - School-issued iPad (Students may lose classroom points for dead iPads)
  - Box of tissue and bottle of hand sanitizer (optional for entire classroom usage)
  - Textbook: *SCIENCE: An Introduction to Life, Earth, and Physical Sciences* (Glencoe/McGraw-Hill, 2003) to be left in the room
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### Course Goals

Students will:

- Design and conduct investigations using logic and evidence to form scientific explanations and models.
- Apply the nature of scientific knowledge in their investigations and evaluate scientific explanations.
- Solve complex design problems.

- Investigate and describe the chemical basis of cellular growth, development, and maintenance.
  - Describe the molecular basis of reproduction and heredity.
  - Explain the cycling of matter and flow of energy between organisms and their environment at a molecular level.
  - Learn about histories past scientists, and strive to become one of the future.
  - Absorb life skills from the labs and activities that will carry on past the classroom.
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## Class Requirements

- **Attendance:** Be here physically and mentally.
  - **Attitude:** Bring a positive attitude.
  - **Application:** Apply what you are learning, do not just regurgitate the information
  - **Participation:** Enthusiastically participate in all activities.
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## Classroom Attitude

- Be engaged in learning.
  - Work hard.
  - Be nice.
  - Ask questions.
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## Expectations

- Always strive to do your best and ask for help when needed.
  - Be kind and helpful.
  - Disruptive behavior, which interferes with learning or is hurtful, is unacceptable.
  - **Students are accountable for their actions.** Disrespectful or disruptive behavior will result in consequences before re-entering the learning community.
  - Students who do not take responsibility for their actions will be given time away from class until they are ready to rejoin the learning community.
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## Grading

- Grades are based on the district-wide grade scale.
- **Final Grade Breakdown (each quarter):**
  - Tests: 35%
  - Projects: 35%

- Classwork: 30%
- **Semester Breakdown:**
  - Q1: 45%
  - Q2: 45%
  - Semester Test: 10%
  - Q3: 45%
  - Q4: 45%
  - Semester Test: 10%
- Students will have ample class time to complete all assignments. If using time efficiently, students should have little to no homework.
- Assignments are due as instructed. Late assignments will earn a maximum of 80% credit if turned in within 24 hours. After 48 hours, a maximum of 50% credit will be earned. (Communicate with staff ASAP if special circumstances arise.)
- **Late materials are DUE by 7:59am**, otherwise considered late another day.
- **Mr. Pack grades the majority of classwork on Sunday evenings, grade checks are Mondays during 2<sup>nd</sup> Period. Do not assume materials will be graded same day as they are turned in.**

#### **Accountability:**

- Points will be deducted for disruptions, misbehavior, late assignments, plagiarism, etc., with no opportunity to recover those points.
- Bell Ringer activities will count towards classwork grades.

#### **Plagiarism/Cheating:**

- Cheating or plagiarizing will result in consequences according to the Student Code of Conduct, including the use of AI-generated work.
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#### **Absences**

- Students are responsible for making up all missed assignments and notes for any absence. **Approach the teacher to find out what was missed.** Materials will be on front desk.
  - For pre-excused absences, notify the teacher in advance. Work must be made up ahead of time unless prior arrangements have been made. Failure to plan ahead will result in a score of .1 on the assignment and loss of classwork points.
  - For extended family trips, students will be given a packet of articles to summarize for participation points. **Notify the teacher in advance** to receive the articles.
  - Labs missed due to absence must be made up within 3 school days.
  - For illness, injury, or family death, follow the two-day rule: two days to make up work per day of absence, with all work due within five days of the absence per the student handbook.
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## Planner

- **Highly Recommended:** Students must fill out their planner each week. Major project due dates, school events and other important dates should be entered ASAP.
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## Special Class Guidelines

1. **Cellphones, Smart Watches, and Earbuds:**
  - **Must be turned off and placed in the student's backpack**, which will be placed on the east wall upon entering class.
  - Items will be confiscated if seen outside the backpack and can be retrieved **at the end of the day**.
  - Continuous abuse will result in detentions, or loss of classroom points (15)
  - If student is seen using smartwatch for communication, it will be put away.
2. **Tardiness:**
  - Students are considered tardy if not in the room when the bell rings. Late students must gather their materials and get into their seats quietly.
3. **Restroom Use:**
  - Restroom breaks are not allowed during instructional discussions or classroom interactions / labs. Use the restroom during passing periods.
4. **iPad Charging:**
  - Keep your school-assigned iPad charged. Charging ports are available in the classroom. Failure to charge your iPad will result in a loss of classwork points.
5. **Extracurricular Involvement:**
  - Students are encouraged to participate in at least one extracurricular activity. Involvement in extracurriculars is correlated with higher grades and graduation rates.
6. **Reading:** Students must carry a reading library book with them. During transitional times between subjects there will be time for reading.
7. **Entering Classroom:** Students need to enter from the 100 hallway, through door 107.
8. **Bell to Bell:** Unless otherwise instructed students need to be working on class or other school work up until the dismissal bell. Only those students that have class outside of main building will be allowed to gather their materials before the bell.
9. **Office Hours:** Mr. Pack is available most school days starting at 7:15-7:30am and until 3:45-4pm. Communication is preferred through email, but phone calls are fine as well.