

Mrs. Nell's 7th Grade Life Science Syllabus

Course Title: 7th Grade Life Science

Contact Information: pam_nell@redlodge.k12.mt.us

Instructor: Mrs. Nell

Course Website: <https://sites.google.com/view/6th-8th-rms-science/7th-life>

Course Description: The 7th Grade Life Science course is aligned with the Next Generation Science Standards (www.nextgenscience.org). Core concepts include the nature of science, classification and exploration of life, cell structure, genetics, natural selection, and mitosis and meiosis.

Course Objectives: By the end of this course, students should be able to:

- 1) describe the characteristics that all living things share and their classification.
- 2) explain the cell theory and how cells obtain energy through cellular respiration and fermentation.
- 3) outline the structure and function of cells and their organelles.
- 4) understand the principles of genetics and inheritance.
- 5) summarize and provide evidence of the theory of evolution by natural selection.
- 6) Identify the major systems of the human body and their functions.

Assessment:

- Skill Practice (conducting investigations, practice problems, etc.): 20%
- Formative Assessment (homework assignments, group work, class participation, etc.): 50%
- Summative Assessments (tests, lab reports, projects, papers, etc.): 30%

Textbook: "Life iScience" McGraw-Hill Education, 2017 ed.

Supplemental Materials:

Selected articles, videos, and online resources will be provided throughout the course.

RMS Grading Scale:

- A 93.5 - 100%
- A- 93.4 - 89.5%
- B+ 89.4 - 86.5%
- B 86.4 - 82.5%
- B- 82.4 - 79.5%
- C+ 79.4 - 76.5%
- C 76.4 - 72.5%
- C- 72.4 - 69.5%
- D+ 69.4 - 66.5%
- D 66.4 - 62.5%
- D- 62.4 - 59.5%
- F 0 - 59.4%

Classroom Expectations:

1. Come to class on time with a pencil, paper, your textbook, and your binder.
2. Get quality work done and turned in on time.
3. Be respectful, courteous, and attentive to staff, classmates, and guests.
4. Follow directions the first time they are given.
5. Conduct yourself in a responsible manner at all times in the science lab.

Homework Expectations:

Assignments will be posted in Google Classroom. The majority of homework assignments are due two days after they are assigned. There are no penalties for late work, but work will not be accepted if submitted after the three-week homework completion gates.

[Mrs. Nell's Planbook Page](#)

Course Schedule:

(Note: This is a general outline and may vary based on class progress.)

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| 1. The Nature of Science- Scientific Explanations | 6. Evolution- The Environment and Change Over Time |
| 2. Classification and Exploring Life | 7. Bacteria & Viruses |
| 3. From a Cell to an Organism | 8. Protists & Fungi |
| 4. Reproduction of Organisms | 9. Animal Diversity |
| 5. Genetics | |