



**Pangburn Middle School**  
**7<sup>TH</sup> GRADE SCIENCE SYLLABUS**



**COURSE TITLE:** 7<sup>TH</sup> GRADE SCIENCE      **TERM:** 2017-18  
**TEACHER:** Andrew Sills      **ROOM #:** 208

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|-------------------------|--|
| <b>Email Address</b>    | <a href="mailto:Andrew.Sills@PangburnSchools.org">Andrew.Sills@PangburnSchools.org</a> |
| <b>Teacher Web Page</b> | <a href="http://andrewsills.weebly.com/">http://andrewsills.weebly.com/</a>            |
| <b>Remind 101</b>       | Text the message @sills7 to the number 81010   |
| <b>Teacher Support</b>  | Mornings starting at 7:30am (by appointment) or during mentor time                     |

### COURSE DESCRIPTION

Welcome to 7<sup>th</sup> grade science, an innovative course based on the framework for the Next Generation Science standards (NGSS). NGSS focuses on science and engineering practices; Earth, life and physical science core ideas; and fundamental crosscutting concepts vital to relating the various fields of science and developing a scientific world view. The course provides the student opportunities to engage in inquiry-based investigations, STEM (Science Technology Engineering Mathematics) projects, and other dynamic activities. Hands-on and online activities encourage the student to make connections, collaborate, and reflect on his or her learning.

### COURSE CURRICULUM CONTENT

| TOPICS OF STUDY   |   |
|---|---|
| <ul style="list-style-type: none"> <li>Density</li> <li>Earth Science</li> <li>Electricity and Magnetism</li> <li>Chemistry</li> <li>Mitosis</li> </ul>   | <ul style="list-style-type: none"> <li>Energy, Force, and Motion</li> <li>Genetics</li> <li>Cell Structure</li> <li>Engineering</li> <li>Thermodynamics and Heat Transfer</li> <li>Weather</li> </ul> |
| This is the concept outline, given by the standard for the state of Arkansas. For a more detailed description, please see <a href="http://www.arkansased.gov/public/userfiles/Learning_Services/Curriculum%20and%20Instruction/Frameworks/Science/revised_Arkansas_5-8_Science_Standards_Topic_Arrangement.pdf">http://www.arkansased.gov/public/userfiles/Learning_Services/Curriculum%20and%20Instruction/Frameworks/Science/revised_Arkansas_5-8_Science_Standards_Topic_Arrangement.pdf</a> |   |

### INSTRUCTIONAL MATERIALS AND SUPPLIES

| Published Materials   | Instructional Supplies  |
|---|---|
| Spark Education LMS (online)<br><br><a href="https://pangburn.sparkeducation.com/courses/listunits/1165">https://pangburn.sparkeducation.com/courses/listunits/1165</a> | <ul style="list-style-type: none"> <li>Binder with dividers &amp; paper for organizing class work</li> <li>Pens (blue or black ink only) and pencils</li> <li>College or Wide Ruled Composition Notebook</li> </ul> |

### EVALUATION AND GRADING

| Assignments  | Grade Weights  | Grading Scale   |
|--|--|---|
| Coursework will consist of reading, independent practice, lab activity (including lab reports), unit tests, quizzes, and a final exam. | Course work will be graded on a typical points-based system where each question in every assignment is assigned a certain number of points. The final grade for the course is then calculated as a percentage of points earned out of points possible. | A: 90 and above<br>B: 80 – 89<br>C: 70 – 79<br>D: 60 – 69<br>F: 59 or below |

### OTHER INFORMATION

| Expectations for Academic Success   | Additional Requirements/Resources   |
|---|---|
| 1) Read daily & Ask questions<br>2) Work all homework problems<br>3) Participate constructively as a team member<br>4) Challenge yourself to continuously improve | <ul style="list-style-type: none"> <li>Tutoring available (during mentor time)</li> <li><a href="https://www.khanacademy.org/science">https://www.khanacademy.org/science</a></li> <li>Lab Safety Procedures/Syllabus (signed)</li> <li>Appropriate lab attire</li> </ul> |

Student's Signature: \_\_\_\_\_ Parent's Signature: \_\_\_\_\_