* 1. **\* All homework listed is due at the beginning of the class period.**
		+ - May 16 Math 8-12 Introductions, Standards, Lesson Planning and Geometry
				* *HW- Read chapter 2, 3, & 4 Bring composition book, 2” binder, & supply pouch*
				* Also Watch the video Mingle and Count from Teachingchannel.com*.*
				* *Write in your journal 2 entries with a paragraph which describes 3 big “take aways” from each chapter. This can be things you learned, wonder, question, disagree with, want to remember, etc..*
				* Introductions, Teaching Principles & Standards & Literature & Lesson Planning
			- May 20 8-12:30 Number sense, games, fact fluency and place value
				* HW read chapter 7 & 10
				* *Write in your journal 2 entries with a paragraph which describes 3 big “take aways” from each chapter. This can be things you learned, wonder, question, disagree with, want to remember, etc..*
			- May 21 8-12:30 Computation and Algorithms/ manipulatives
			- HW read chapter 9, 11 or 12
			- *Write in your journal 2 entries with a paragraph which describes 3 big*
			- *“  take aways” from each chapter. This can be things you learned, wonder,*
			- *question, disagree with, want to remember, etc..*
			- *May 23 8-12:30*Fractions/assessment
				* HW Read chapter 14 and 5
				* *Write in your journal what resonated with you from each of the sections in your chapter.*
			- May 24 8-12 Fractions, Decimals and Percents
				* HW Chapter 15 (Jigsaw)
				* *Write in your journal what resonated with you from each of the sections you were assigned*
			- May 28 STEM PD 8-3- Pedagogy test on Canvas is due by 8am
			- May 29 STEM PD 8-3
			- May 30 STEM PD 8-3
			- June 5- 1-4:30 Geometry/ Measurement -Math as a tool vs. integrated math
				* *HW- Read chapter 18 & 19*
				* *Write in your journal 2 entries with a paragraph which describes 3 big “take aways” from each chapter. This can be things you learned, wonder, question, disagree with, want to remember, etc..*
				* **Math Games Due**
			-
			- June 6 8-11am Data Analysis and Algebra/ technology
				* HW Read chapter 20
				* *Write in your journal what resonated with you from each of the sections in your chapter. This could be a question, observation, concern, disagreement, or "ahaa" moment. This can be things you learned, wonder, question, disagree with, want to remember, etc..*
				* *Write one thing that resonated from the video*

**Journal Due**

**June 7- Orientation and room set up**

***\*\*\*\*\*\*\* Elementary Camp June 10-28 \*\*\*\*\*\*\*\*\*\*\*\****

***\*\*\*\*\*\*\* Teaching 7:30-12 & Class 1:30-3:00\*\*\*\*\*\*\*\*\*\*\*\****

**Lesson plans/ observations are due during camp**

* + - * June 26 1:30-3 Pulling it together
			* June 28- Everyone stays until all the rooms, offices, and hallways are cleaned up and ready for other courses.
			* July 9 Due on Canvas by 5pm- **Take Home** **Pedagogy test** **Part 2**
			* July 9 ZOOM Conference Debriefing
		- *Lesson Plan, lesson plan reflection, and kidwatching reflection are all due on Canvas****July 13 by 5pm.****Questions about assignments need to be addressed by contacting individual professors****at least 2 days****prior to assignment due date.*

**STEM Camp Resources**

* 1. Week 1 Robotics general resources
		+ code.org- [courses](https://auburn.instructure.com/courses/1189925/pages/https%3A//code.org/educate/curriculum/elementary-school?titleize=0) that you can pick the grade then letter course, then activity
			- [Course C](https://auburn.instructure.com/courses/1189925/pages/https%3A//code.org/student/elementary?titleize=0) from this link is one we used last year.
	2. Week 2 Structures (and windmills) general resources
		+ [Building lesson plans](https://auburn.instructure.com/courses/1189925/pages/https%3A//www.homeadvisor.com/r/educators-guide-to-building-and-construction/?titleize=0) and ideas for elementary
		+ Building structures for [weather](https://auburn.instructure.com/courses/1189925/pages/https%3A//www.youtube.com/watch%3Fv%3DBSzkTkmKfts?titleize=0)
	3. Week 3 forces in motion
		+ [Background knowledge](https://auburn.instructure.com/courses/1189925/pages/https%3A//www.grc.nasa.gov/www/k-12/airplane/newton.html?titleize=0)
	4. 3rd grade resources
		+ Week 1
			- [Doodlebot- If you are an NSTA member there is an article about it in Science and Children](https://auburn.instructure.com/courses/1189925/pages/http%3A//static.nsta.org/connections/elementaryschool/201612DoodleBotSTEAMLessonPlan.pdf?titleize=0" \o "http://static.nsta.org/connections/elementaryschool/201612DoodleBotSTEAMLessonPlan.pdf)
		+ Week 2
			- Building houses for [weather](https://auburn.instructure.com/courses/1189925/pages/https%3A//www.youtube.com/watch%3Fv%3DjJHPBdSwrg8?titleize=0)and [earthquakes](https://auburn.instructure.com/courses/1189925/pages/https%3A//www.youtube.com/watch%3Fv%3DBSzkTkmKfts?titleize=0)
			- [Disaster proofing house (lesson plans)](https://auburn.instructure.com/courses/1189925/pages/http%3A//teachers.egfi-k12.org/disaster-proof-housing/?titleize=0)
			- Natural[disasters unit 4th grade](https://auburn.instructure.com/courses/1189925/pages/http%3A//missmoavero.weebly.com/uploads/3/9/5/3/39539321/natural_disasters_unit.pdf?titleize=0)and [NSTA lesson with assessment](https://auburn.instructure.com/courses/1189925/pages/https%3A//www.researchgate.net/profile/Meredith_Kier/publication/308874301_Storm_Warning_A_design_challenge_that_requires_students_to_create_structures_that_can_withstand_a_hurricane%2527s_effects/links/590b42acaca272f6580eb410/Storm-Warning-A-design-challenge-that-requires-students-to-create-structures-that-can-withstand-a-hurricanes-effects.pdf?titleize=0)
	5. 4th grade resources
		+ Week 3-
			- [Building an amusement park- Math and LA](https://auburn.instructure.com/courses/1189925/files/146582862/download?wrap=1)
			- [roller coaster lesson plans 1](https://auburn.instructure.com/courses/1189925/pages/http%3A//www.educationworld.com/a_tsl/archives/05-1/lesson007.shtml?titleize=0)
			- [Marble roller coasters](https://auburn.instructure.com/courses/1189925/pages/http%3A//www.crscience.org/pdf/MarbleRollerCoasters.pdf?titleize=0)
			- [Elementary end of year design and test roller coaster](https://auburn.instructure.com/courses/1189925/pages/http%3A//teachingiselementary.blogspot.com/2013/06/end-of-year-activity-roller-coaster-unit.html?titleize=0)
			- [Roller coaster](https://auburn.instructure.com/courses/1189925/pages/https%3A//betterlesson.com/lesson/629929/day-1-roller-coaster-research?titleize=0)
	6. 5th grade resources
		+ Week 1
			- [NASA Robotics](https://auburn.instructure.com/courses/1189925/pages/https%3A//robotics.nasa.gov/edu/rover.php?titleize=0)

Course Summary:

| **Date** | **Details** |
| --- | --- |
| May 16 |

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|  | [Protecting Minors Course Certificate](https://auburn.instructure.com/courses/1189925/assignments/7539154) | due by 7:59am |

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| May 28 |

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|  | [Pedagogy Test Part 1](https://auburn.instructure.com/courses/1189925/assignments/7539152) | 10pts |

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| June 5 |

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|  | [Math Games](https://auburn.instructure.com/courses/1189925/assignments/7539151) | 10pts |

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| June 6 |

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|  | [Journal](https://auburn.instructure.com/courses/1189925/assignments/7539147) | 10 pts |

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| July 13 |

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|  | Lesson Plan, data analysis, video, student sample | 25 pts |

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| July 9 |

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|  | [Pedagogy Test Part 2- Application](https://auburn.instructure.com/courses/1189925/assignments/7539153) | 10 pts |

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| July 13 |

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|  | [Kidwatching & reflection: Student observations](https://auburn.instructure.com/courses/1189925/assignments/7539148)/ interviews | 15 pts |
|  | [Lesson](https://auburn.instructure.com/courses/1189925/assignments/7539149) Observations of Peers |  |

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| July 13 |

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| --- | --- | --- | --- |
|  | [Class Activities and Field Placement](https://auburn.instructure.com/courses/1189925/assignments/7539146)- These points also include that you uploaded all forms, plans and lessons in the appropriate places |  |  10 pts |
|  | [Reflections for each week (just upload what you wrote for the other classes that required this).](https://auburn.instructure.com/courses/1189925/assignments/7539155) |  |   |
|  | All Lesson plans for the week- Everything planned and taught in black font. Everything a peer planned in red font and everything a peer taught in blue. Highlight all examples of math as a tool in yellow and math being taught in green. |  |  |
|  | [Survey](https://auburn.instructure.com/courses/1189925/assignments/7539156) |  |   |

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