* 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%2F%2Fcode.org%2Feducate%2Fcurriculum%2Felementary-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%2F%2Fcode.org%2Fstudent%2Felementary?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%2F%2Fwww.homeadvisor.com%2Fr%2Feducators-guide-to-building-and-construction%2F?titleize=0) and ideas for elementary
     + Building structures for [weather](https://auburn.instructure.com/courses/1189925/pages/https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DBSzkTkmKfts?titleize=0)
  3. Week 3 forces in motion
     + [Background knowledge](https://auburn.instructure.com/courses/1189925/pages/https%3A%2F%2Fwww.grc.nasa.gov%2Fwww%2Fk-12%2Fairplane%2Fnewton.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%2F%2Fstatic.nsta.org%2Fconnections%2Felementaryschool%2F201612DoodleBotSTEAMLessonPlan.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%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DjJHPBdSwrg8?titleize=0)and [earthquakes](https://auburn.instructure.com/courses/1189925/pages/https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DBSzkTkmKfts?titleize=0)
       - [Disaster proofing house (lesson plans)](https://auburn.instructure.com/courses/1189925/pages/http%3A%2F%2Fteachers.egfi-k12.org%2Fdisaster-proof-housing%2F?titleize=0)
       - Natural[disasters unit 4th grade](https://auburn.instructure.com/courses/1189925/pages/http%3A%2F%2Fmissmoavero.weebly.com%2Fuploads%2F3%2F9%2F5%2F3%2F39539321%2Fnatural_disasters_unit.pdf?titleize=0)and [NSTA lesson with assessment](https://auburn.instructure.com/courses/1189925/pages/https%3A%2F%2Fwww.researchgate.net%2Fprofile%2FMeredith_Kier%2Fpublication%2F308874301_Storm_Warning_A_design_challenge_that_requires_students_to_create_structures_that_can_withstand_a_hurricane%2527s_effects%2Flinks%2F590b42acaca272f6580eb410%2FStorm-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 Preview the document](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%2F%2Fwww.educationworld.com%2Fa_tsl%2Farchives%2F05-1%2Flesson007.shtml?titleize=0)
       - [Marble roller coasters](https://auburn.instructure.com/courses/1189925/pages/http%3A%2F%2Fwww.crscience.org%2Fpdf%2FMarbleRollerCoasters.pdf?titleize=0)
       - [Elementary end of year design and test roller coaster](https://auburn.instructure.com/courses/1189925/pages/http%3A%2F%2Fteachingiselementary.blogspot.com%2F2013%2F06%2Fend-of-year-activity-roller-coaster-unit.html?titleize=0)
       - [Roller coaster](https://auburn.instructure.com/courses/1189925/pages/https%3A%2F%2Fbetterlesson.com%2Flesson%2F629929%2Fday-1-roller-coaster-research?titleize=0)
  6. 5th grade resources
     + Week 1
       - [NASA Robotics](https://auburn.instructure.com/courses/1189925/pages/https%3A%2F%2Frobotics.nasa.gov%2Fedu%2Frover.php?titleize=0)

Course Summary:

| **Date** | **Details** |
| --- | --- |
| May 16 | |  |  |  | | --- | --- | --- | |  | [Protecting Minors Course Certificate](https://auburn.instructure.com/courses/1189925/assignments/7539154) | due by 7:59am | |
| May 28 | |  |  |  | | --- | --- | --- | |  | [Pedagogy Test Part 1](https://auburn.instructure.com/courses/1189925/assignments/7539152) | 10pts | |
| June 5 | |  |  |  | | --- | --- | --- | |  | [Math Games](https://auburn.instructure.com/courses/1189925/assignments/7539151) | 10pts | |
| June 6 | |  |  |  | | --- | --- | --- | |  | [Journal](https://auburn.instructure.com/courses/1189925/assignments/7539147) | 10 pts | |
| July 13 | |  |  |  | | --- | --- | --- | |  | Lesson Plan, data analysis, video, student sample | 25 pts | |
| July 9 | |  |  |  | | --- | --- | --- | |  | [Pedagogy Test Part 2- Application](https://auburn.instructure.com/courses/1189925/assignments/7539153) | 10 pts | |
| July 13 | |  |  |  | | --- | --- | --- | |  | [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 |  | |
| July 13 | |  |  |  |  | | --- | --- | --- | --- | |  | [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) |  |  | |