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| **2017-18 Course Syllabus**  **Jasper County Middle School** **6th Grade CS Fundamentals (Computer Literacy)**A. Maureen “Coach Mo” Ryan, EdSEmail: mryan@jasper.k12.ga.us Teacher Website: <http://jcsd.schoolwires.net/Page/880> |

**Course Description & Information**

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| **Learning Expectations** | Computer science and the technologies it enables now lie at the heart of our economy and the way we live our lives. To be well-educated citizens in a computing-intensive world and to be prepared for careers in the 21st century, all students must have a clear understanding of the principles and practices of computer science. |
| **Course Description** | CS Fundamentals is designed to engage creativity, demonstrate and build problem solving ability all while connecting the relevance of computer science to the society. Students participate in an engaging course focused on building a solid understanding and foundation in computer science. CS Fundamentals emphasizes the content, practices, thinking and skills central to the discipline of computer science. Through content and pedagogy, this course aims to appeal to a broad audience. Computational thinking practices include: connecting computing, collaborating, developing computational artifacts, abstracting, analyzing problems and artifacts, communicating, and investigating community, global, and ethical impacts.  |
| **Course Content** | With learning modules in Code.org, students create programs using loops, events, and conditionals and write algorithms for everyday tasks. Students translate their names into binary, investigate problem-solving techniques, and discuss societal impacts of computing. Accelerated students may advance to the ScratchEd curriculum to design and create animations, games and interactive projects while extending their understanding of variables, loops, conditional statements and event handling. |
| **Standards** | CSTA K-12 Level 2 Computer Science Standards. Georgia Computer Science Standards are expected to be available in late September, 2017. |
| **Required Materials** | Students should provide their own personal earbuds, or headphones. A class set is available for those students that cannot provide their own set. |
| **Grades** | Student work will be closely monitored for mastery. Students are expected to participate in their coursework daily and to be supportive of our learning environment and our students. Grades will be determined through student participation, unit completion with mastery, quizzes, projects and unit tests.Assessment will be: 70% Formative / 30% SummativeGrading Scale: 90 & above = A 80 – 89 = B 70 – 79 = C Below 70 = F |
| **Student Conduct** | Students are expected to adhere to the JCMS Student Code of Conduct, use technology and school equipment in a respectful and appropriate manner, and to be respectful to staff and students in ways that promote our positive learning environment. |