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| **2017-18 Course Syllabus**   **Jasper County Middle School**  **8th Grade CS Discoveries (Computer Literacy)**  A. Maureen “Coach Mo” Ryan, EdS  Email: [mryan@jasper.k12.ga.us](mailto: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, our students must have a clear understanding of the principles and practices of computer science. |
| **Course Description** | CS Discoveries is designed to engage creativity, demonstrate and build problem solving ability all while connecting the relevance of computer science to the society! This course emphasizes the content, practices, thinking and skills central to the discipline of computer science. The focus of this course will fall into these computational thinking practices: 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 with loops, events, and conditionals and write algorithms for everyday tasks. They will translate their names into binary, investigate different problem-solving techniques, and discuss societal impacts of computing. By the end of the curriculum, students create websites, interactive games or real-world applications they can share. The complexity and depth of topics discussed are scaffolded appropriately to provide all students a rich and novel experience. |
| **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% Summative  Grading 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. |