

**Syllabus:  Comprehensive Science 3**

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| **Textbook:  Discovery Techbook (online)** | |
| **Description of the course:**  The purpose of this course is for students to study the structure and behavior of the physical and natural world around them.  This course will serve as a building block for the 8th Grade Science FCAT exam (a cumulative state assessment covering 6th-8th grade standards).  Students will be required to prove mastery in each of the Florida State Standards, and should not take this course lightly. | |
| **Procedures and characteristics of the course include:**   * **The Practices of Science:** * Inquire by asking questions about the objects and events that are studied * Make observations, and then create and test hypotheses * Gather information from primary and secondary sources, informational texts, and appropriate sites on the Internet * Critically analyze sources of the researched subject * Record, sort and sequence qualitative and quantitative data from every investigation to decide if the hypothesis was supported * Communicate the outcomes of each investigation through reports, charts and graphs * Have an open mind to alternate points-of-view | |
| **Collaborated Student Supply List for 8th Grade (for the student):**   * **A note taking system:**  5-subject college lined notebook with pocket dividers * Ti-30XA Calculator (this is a **must!** The same calculator will be used in other classes, and is the **ONLY** calculator allowed on standardized tests. Without it, calculations will need to be completed on paper). * Mechanical Pencils (preferred, or #2 pencils and a hand-held sharpener) * Blue and Red Pens * Colored Pencils (IMPORTANT!) * Personal Highlighter * Personal Whiteboard Marker * Ruler * Ear buds (Needed!)   **ONLINE students will need (in addition to the above):**   * A liquid measuring cup (ml) * Digital food scale (g) * Meter stick (m)   **Appreciated (for the classroom):**   * Tissue Box * Expo Markers * Copy Paper | |
| |  | | --- | | **Classroom Rules:**   * Have **Respect**fory**ourself to be the best you can be, treat others as you would like to be treated, and take care of the community in which you share.** * Show **Responsibility**by: * Coming to class on time AND being in the seat WHEN THE BELL RINGS. * Being prepared with homework assignments, and student supplies EVERY DAY * Cleaning up the area in which you are working, and returning the classroom supplies in which you are using * **Cell phones will remain in the student’s backpack unless otherwise specified.** * **Students who do not complete their homework will be required to attend make-up sessions held every Friday afternoon.**This time is also for tests missed during absences and classwork that has not completed. | | **The Grading System:**   * The students will be graded on a cumulative point system that will be converted into percentage values * Students will use the Cornell Notes format (points will be deducted for every paper submitted that is not in this format) * Formative assessments will include vocabulary practice, exit tickets of key terms and concepts, written assignments per topic area, concept maps, diagrams, graded notes, recorded class discussions, white board assessments, QRL code assessments, daily quizzes, accumulated binder grade for each grading period, and games such as Quizlet and Kahoot! * Summative assessments will include vocabulary quizzes, chapter exams, Study Island exams for each unit, Lab reports, etc… | | |

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| **Term** | **Topics** |
| 1st Quarter | Math in Science   * Students will be able to classify and compare the various properties of matter that can be measured. Labs will be conducted to study density, volume, weight, mass, gravitational force, distance, speed, acceleration, temperature, barometric pressure, and studying frequencies.   Physical Science   * Atomic Theory * Macromolecules, molecules and compounds * Periodic Table of Elements |
| 2nd Quarter | Physical Science   * Properties of compounds, acids, bases and salt * Mixtures and Solutions * Physical and Chemical Changes * Law of Conservation of Mass * Electromagnetic Spectrum |
| 3rd Quarter | Life Science   * Photosynthesis and Cellular Respiration   Earth Science   * Comparisons in the compositional make up of astronomical bodies, and the distances between them * Law of Universal Gravitation * Properties of the Sun |
| 4th Quarter | Earth Science   * Technology in Space Exploration * Eclipses, Tides and Moon Phases   FCAT review of Grades 6-8 of Big Ideas |