

8th Grade Science (Comprehensive Science III) Syllabus and Class Guidelines

This syllabus covers information for 8th grade science and 8th grade advanced science for students attending school In-person and for online Innovative students.

Welcome to Dr. Newcomb's 8th grade science class. I am looking forward to being a part of your child's learning experience this year! We will use a variety of learning methods in a blended learning environment, including direct teacher instruction, small-group learning, hands-on activities, labs, technology, notebooks, projects, and whole-class activities.

Contact information: Please feel free to email me at newcombj@ivyhawnschool.org or call me at (386) 228-3900 with any questions or concerns you may have throughout the year. I can also be contacted through messages on the Remind app.

Please sign-up for Remind by using the code for your specific science course found below:

Class	Code
In-person 8th Grade advanced science	@ihadvsci8
In-person 8th Grade science	@ihscience8
Innovation 8th Grade advanced science	@ihiadvsci8
Innovation 8th Grade science	@ihisci8

IMPORTANT for parents: Please, when you sign up for your class Remind enter your name as follows:

First name

Last name

IMPORTANT for students: Please, when you sign up for your class Remind enter your name as follows:

First name

Last name

This is for me to make sure I know who I am talking to when using the Remind app. If you have already created an account, please go back and edit your information so that the names are displayed this way.

Course Description: *Each area of study is set up according to state and national benchmarks. The order of instruction (listed below) will be followed throughout the year to ensure that concepts and topics are taught according to our benchmarks and standards.*

First Nine Weeks

Nature of Science, Atomic Theory, & Chemistry – topics include a review of laboratory safety, classroom rules and procedures, the scientific method, solving scientific problems, physical and chemical properties of matter, atoms, elements, compounds, mixtures, atomic theory and the periodic table

Second Nine Weeks

Physical Properties & Matter Cycles– topics include the states of matter, physical and chemical changes, density, photosynthesis, and cellular respiration

Third Nine Weeks

Physical Properties & Matter Cycles Continued and The Universe & The Solar System– topics include the carbon cycle, EM spectrum, scale of the universe, Law of Universal Gravitation, physical properties of stars, and historical models of the solar system

Fourth Nine Weeks

The Universe & The Solar System Continued and FSSA review & administration – topics to finish the unit on the Solar System include relationships between Sun, Earth, & Moon, and the effects of space exploration on the economy & culture of Florida. *The FSSA will be administered in May with a date to be announced. This exam will cover science material learned in 6th, 7th and 8th grades.* After the FSSA the students will be presented with topics that will help transition them to high school biology/life science.

Materials for this class: In-person and Innovative students will need the materials listed below. Some materials need to be supplied by the student, while other materials will be supplied by the teacher.

Materials needed by all students (In-person and Innovative):

Student supplied materials	Teacher supplied materials
<p><u>All</u> students must have the following <u>general materials</u> for class (bring to class daily):</p> <ul style="list-style-type: none">• 1-inch binder• 9 tab dividers• 100 3x5 index cards• Loose leaf paper• Pencils• Markers• Colored pencils or crayons• Highlighters (at least 2 colors would be best)• 3 different colors of dry erase markers• School scissors• Glue (glue stick or liquid glue is fine)	<p>The <u>teacher</u> will supply the following materials for <u>all</u> students for <u>general class instruction</u>:</p> <ul style="list-style-type: none">• Unit note packets• Unit review packets• Edgenuity curriculum• Various practice, activity, and lab handouts (Innovative students may need to print or hand copy as needed)• Various online platforms for enrichment of lessons and assignments

<p><u>All students must have the following materials for labs and activities (bring to class as directed by teacher):</u></p> <ul style="list-style-type: none"> • Safety glasses / goggles / or eyeglasses (if worn) – must be clear. <i>These can be found at some Dollar stores or Home Depot)</i> • 4 pack of Play-doh <i>This can be found at some Dollar stores, Publix, Wal-Mart</i> 	<p><u>The teacher will supply the following materials for all students in the lab kit (picked up from school):</u></p> <ul style="list-style-type: none"> • Aluminum foil • 3 toothpicks • Paper protractor (can be cut out if needed) • Paper ruler (can be cut out if needed) • 3 sheets graph paper • 2 paper cups • 1 coffee filter • 5 lima beans • 1 atomic model paper • 3 pieces of red litmus paper (In envelope. Light sensitive, so please leave in envelope until time to use.) • pH paper (In envelope. Light sensitive, so please leave in envelope until time to use.)
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Materials specific for In-person students:

<p>The <u>teacher</u> will supply the following materials for <u>In-person</u> students in the <u>lab kit</u> :</p> <ul style="list-style-type: none"> • travel size toothpaste • 10 cm and 30 cm pieces of string <p>The <u>teacher</u> will supply the following materials for <u>In-person</u> students as needed for labs:</p> <ul style="list-style-type: none"> • Vegetable oil • Cinnamon • Paper towels • Plate • Spoon • Tape • Small bag of skittles • Stopwatch • 10 pennies • Dirt • Small ball or tennis ball (something light to throw) • Magnet • Sugar • Salt • Sand

Optional student supplied materials:

<ul style="list-style-type: none"> • Ruler • Pocket folder
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Materials specific for Innovative Students (all classes):

<p>In addition to the general materials listed above for all students, <u>Innovative students</u> must have the following <u>general materials</u> for class (bring to class daily):</p> <ul style="list-style-type: none"> • Computer that is video chat enabled
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- Keyboard
- Uniform

Innovative students must supply the following materials for labs and activities (bring to class as directed by teacher):

- Vegetable oil
- Cinnamon
- Paper towels
- Travel size toothpaste (Innovative students can also use their regular toothpaste)
- Plate
- Spoon
- Tape
- Stopwatch or clock on phone
- 10 pennies or 10 of a different type of coin
- 2 pieces of string (lengths of 10 cm and 30 cm)
- Access to a little dirt (to grow a seed)
- Small ball or tennis ball (something light to throw)
- Refrigerator magnet
- Sugar or flour
- Salt
- small pack of skittles candy

Special note on materials:** The listed unit note packets, unit reviews and lab materials have been provided for curriculum through the first semester. A second set of note packets, unit reviews and lab materials will be provided for the second semester curriculum as determined by individual learning needs (In-person or Innovative learning). **I will tell you in advance what materials to have ready for class the next day. Please leave all other not needed materials at home.

Expectations: Students should attend class every day prepared to work hard and to focus on the things we need to learn. The curriculum map for 8th grade science (comprehensive science III) is extensive and will require us to work hard as a team. Actions that interfere with teaching and learning are unacceptable and will not be tolerated. All students will be expected to follow all school and class rules, as well as, those expectations for Ivy Hawn students. This will help us to build a positive and productive learning environment for everyone. 8th grade science will require students to think, to process information independently, and to take responsibility for their learning—if they don't understand something, they will be encouraged to ask questions! All students will be expected to take an active part in the learning environment in the classroom.

Class Rules:

1. Be respectful of others and their property
2. Follow directions
3. Use respectful language
4. No phones, food, gum, candy or drinks other than water allowed during class time
5. In-person students must wear their mask in class
6. In-person students must sanitize their hands before entering or exiting class and before and after touching any shared equipment

Class Expectations:

1. Be on time! (This goes for all students!)
2. Be prepared

3. Cheating will not be tolerated
4. Students will adhere to classroom traffic patterns
5. The teacher dismisses student from class, not the bell

Bathroom policies:

In-person students: Only one student is allowed out to the bathroom at a time. Students will use their own pencil to sign in/out. Students will take a paper pass as their bathroom pass. This pass will be thrown away once they return to the classroom. Bathroom passes are not to be reused.

Discipline Procedures: Students who are unable to follow classroom rules and expectations will receive the following consequences:

- Verbal Warning (1st offense)
- Seat Moved/2nd Verbal Warning (2nd offense)
- Student-Teacher Conference (3rd offense)
- Parent Contact (4th offense)
- Discipline Referral (5th offense)

ANY misbehavior for a substitute teacher and/or severe discipline issues will result in an immediate referral.

Formative Assessments (40%): Formative assessments include classwork, bell ringers, exit tickets, quizzes, homework, some projects, activities, some labs, binder checks, and other various activities that help assess mastery. The binder is created in class and should have all information that appears in the teacher's binder to receive full credit.

Summative Assessments (60%): Summative assessments include tests, some projects, some labs/formal lab reports, and district interim assessments (DIA). If a student receives a poor grade on a test or district interim assessment (DIA), they will have one opportunity to do test corrections to bring their grade up. The student must see me for a test correction form and will be required to complete any necessary remediation work. The test corrections and/or remediation work must be completed within 5 days of the original test. Students will be able to earn half of the points back for each corrected response. Test corrections are a great way for students to identify their mistakes and learn from them.

Make-up work: If a student is absent, it is their responsibility to get missed work. Students who must be out of school for any reason should go to Classroom Connect to access daily work and to see what they are missing in class. Students are allowed one day per missed day to make up missing assignments unless extenuating circumstances necessitate additional time (and this is approved by the teacher). All missing/incomplete work will be assigned a M (0%) until completed.

Homework: Homework will be listed on the homework board and on Classroom Connect. Any assignment not finished in class should be finished for homework. Other homework assignments may be independent of classwork and may include practice worksheets, vocabulary, lab reports, projects, online research, test prep, etc. Due dates will vary, so please check the homework board, Classroom Connect, with another student or the teacher! In-person students will turn in most assignments through Edgenuity. All Innovative students will turn in their assignments virtually.

Extra Credit: Extra credit projects may be offered throughout the school year.

Late Work Policy: All assignments must be turned in on the day that they are due. An assignment not turned in on the day it is due will be considered late and may have points deducted. Please let me know if you have extenuating circumstances and I will work with you.

Grade check: Please check Focus for your grades. The grade profile on Edgenuity is not complete. Please email me with any questions or concerns.

Course Objectives: This course prepares students to show proficiency on state mandated science standards. At the end of this course, students will take the Florida Science Standards Assessment (FSSA). The FSSA covers science standards learned in 6th, 7th and 8th grade science. A review of this material will be given before the FSSA in May.

Covid-19 Classroom Implementations: Students will be assigned seats and distanced between 4 and 6 feet apart, including a shield between them. Students are **required** to wear their masks for the entire class period. There will be multiple sanitation stations set up in the room for students to sanitize hands before and after coming into the classroom and before and after touching any shared materials (a pencil sharpener for example). Each student needs to be prepared with their own supplies for class, as there will be no shared supplies. Please see the detailed materials list above. Technology and desks will be sanitized daily. Students that are unable to adhere to the above guidelines can be considered for the innovative classroom option. It is imperative that we enforce these guidelines to help keep students and faculty safe and healthy.

Innovative Learning Students: Sign into Zoom meeting using the specific meeting ID and passcode for your class. This information was emailed before school started. If you did not receive the email, please contact your teacher for the information. Students should be on the Zoom meeting at the scheduled class starting time. Attendance will be taken. Students will need to be present on video in their Ivy Hawn uniform. Each student needs a distraction free work space and must be the only one present and communicating during class time. Parents can schedule a meeting via email. I am available to answer questions or for conferences via email, phone or Remind outside of class time. Students' phones, game systems, and devices, other than the computer used for class, are prohibited during class time. Students are required to follow the same rules as an in-school student. Discipline will be carried out the same as above (refer to Discipline Procedures). Keep in mind that some offenses could lead directly to a referral or withdrawal from the innovative course. Students need to check Classroom Connect each class day. Innovative student curriculum and assignments will be posted on Edgenuity. Students will sign in using the following website - <https://auth.edgenuity.com/Login/Login/Student>. Your username is your alpha code with a "1" in front of it. Your password is your birthday. Innovative students should receive a lab kit, unit note packet and unit review packet from the teacher to help maximize learning in the course.

Innovative student questions: During your class Zoom time, please use the chat box to ask the teacher a question. If you have a question on class content or assignments after the Zoom class time, please attempt the assignment and write the questions in an email to me at: newcombj@ivyhawnschool.org I will answer them as soon as possible.

Innovation student help time: I will have student help sessions on Tuesday and Thursday afternoons from 3:30-4:00. (The time may be able to be moved up closer to right after school as the school year progresses, depending on my after school duties.) Students need to email me at newcombj@ivyhawnschool.org by 3:00pm the day of the help session to participate. I will email back a Zoom meeting ID and passcode so that the student can enter the session. If no students email me by 3:00pm the day of the help session to participate then I will not hold the help session.

Thank you and I look forward to being your science teacher this year!

Dr. Newcomb