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No Ads! Improved Performance! Less Distraction! Build Your Own Games (coming soon)! Membership to BrainyBlast included (coming soon)! Please note: There will always be a FREE version of BioMan Biology that has all of the same games, activities, and videos as the membership site, but I also wanted to offer an ad-free option for those who want to have it! To access the ad-free member site, click the "Member Site" button at the top left of this webpage! Click the button below to see how you can become a member! Ad-Free Membership Options A growing list of animations to help you learn about Biology! Check it out and subscribe to hear about the latest videos as they come out! Subscribe to go Ad-Free for a Year! What is BioMan Biology? BioMan Biology is the fun place to learn Biology! Here you will find learning games, review games, virtual labs and quizzes that will help you to learn about cells, ecology, genetics, physiology, and much more! Note: If you are a teacher, please check out the teacher section for ways to use the site to increase student engagement and learning. Remember, everything on this site is completely FREE to use! Biology Video Games and Virtual Labs by Topic Body Systems (Physiology) Find out how the body works by playing fun interactive games and performing awesome virtual labs! The digestive, nervous, immune, endocrine, cardiovascular, excretory, and other systems await! Cells All living things are made of cells! Learn how they work and what they are made of! Cell organelles such as the nucleus, mitochondria, chloroplasts, ribosomes, lysosomes and many more can be found here. You'll be amazed at what happens in each of your cells! Ecology Ecology is the study of how living things interact with one another and with their environments. Ecosystems, communities, populations, habitats, niches, pollution, and much more are studied by ecologists. Review and learn something new about the living world in these games and activities! Evolution and Classification Living things change over time! Learn about and review the mechanisms that cause genetic change in populations, as well as several lines of evidence for change over time. Also, explore how organisms are classified into groups and named. Genetics and Meiosis Genes are passed on from one generation to the next! Learn how this occurs through fun, interactive games and activities that explore genetics and meiosis! Life Chemistry (Biochemistry and Molecular Biology) Living organisms perform chemical reactions all day, every day! These chemical reactions are what keep you alive! Learn about DNA, RNA, protein synthesis, and other major biological molecules like lipids, nucleic acids, and carbohydrates. Photosynthesis and Respiration Without photosynthesis and respiration, living things would not be able to get energy that is needed to survive. Learn about the roles of oxygen, carbon dioxide, glucose, water and ATP! Scientific Methods (Investigation and Experimentation) Scientific methods are the techniques and tools scientists use to learn about the world! Learn about questions, hypotheses, variables, theories, laws and much more by playing video games and performing virtual investigations! A growing list of animations to help you learn about Biology! Check it out and subscribe to hear about the latest videos as they come out! Subscribe to go Ad-Free for a Year! Students: Why use BioMan Biology? Reason #1: It's Free and it's Fun! Do you think biology is boring? Would you rather play a video game than study? BioMan biology can help! Here, you can learn by playing fun computer games! Blast invading aliens, solve puzzles and fight viruses while learning how biology works! Everything is completely free, too! Reason #2: Get better grades and learn! Even though this site has fun games, you can still learn a lot by playing them. Instead of studying flash cards, you can play a video game to review key words! Instead of just reading your notes, you can challenge yourself to an interactive game, or play a 2-player game and battle your friend! If learning is fun, you are more likely to spend time learning and remember what you learned! Reason #3: Feedback Have you ever done your homework, but weren't sure if you were right about your answers? Do not fear, BioMan is here! The games, activities, and quizzes on this site give you immediate feedback about your answers so you know if you are right or wrong! This way you will be learning the right stuff and can correct any misconceptions you may have, so you can get the answers right on quizzes and tests! Tell your friends and teachers! If you like the site, let your friends and teachers know about it! Who knows, your teacher might like the site so much that you'll be spending a lot of class time playing games at the computer lab! I hope you enjoy the site. Have fun! Check out my YouTube animation of Mitosis too! You are using the Free Version of this Game (with ads). If you want to use the Ad-Free Member Version, click the button below. Please note: This will open in a new tab/window! Please save your progress before proceeding! Go to Ad-Free Member Version of This Game Topics Covered: Cell Cycle, Interphase, Mitosis, Cytokinesis, Chromatin, Chromosomes, Role of the cell cycle in growth and healing. This is a short interactive useful for helping students understand the basics of the cell cycle and how one cell divides to form two genetically identical daughter cells. You are using the Free Version of this Game (with ads). If you want to use the Ad-Free Member Version, click the button below. Please note: This will open in a new tab/window! Please save your progress before proceeding! Go to Ad-Free Member Version of This Game Topics Covered: Be Carbon in the Carbon Cycle! Nutrient Cycling, Carbon Cycle, Photosynthesis, Respiration, Combustion, Fossil fuels, Fossilization, Decomposition, Next Generation Science Standards (NGSS): HS-LS2-5 Ecosystems: Interactions, Energy, and Dynamics-- Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere. You are using the Free Version of this Game (with ads). If you want to use the Ad-Free Member Version, click the button below. Please note: This will open in a new tab/window! Please save your progress before proceeding! Go to Ad-Free Member Version of This Game Topics Covered: Ecological succession, Primary succession, Secondary succession, abiotic and biotic factors, pioneer species, critical thinking, graph analysis, NGSS (Next Generation Science Standards), phenomena. For NGSS, see LS2.C: Ecosystem Dynamics, Functioning, and Resilience specifically. Test your knowledge and learn at the same time! The digestive, nervous, immune, endocrine, cardiovascular, excretory, and other systems await! Cells Quizzes Quiz yourself! It's one of the best ways to study! Quizzes on cell processes and cell organelles such as the nucleus, mitochondria, chloroplasts, ribosomes, lysosomes and many more can be found here. Ecology Quizzes Ecology is the study of how living things interact with one another and with their environments. Ecosystems, communities, populations, habitats, niches, pollution, and much more are studied by ecologists. Find out what you know about ecology and what you need to study more! Evolution and Classification Quizzes Living things change over time! Review the mechanisms that cause genetic change in populations, as well as several lines of evidence for change over time through these interactive quizzes. Genetics and Meiosis Quizzes Genes are passed on from one generation to the next! Test your knowledge of genetics and meiosis here! Life Chemistry (Biochemistry and Molecular Biology) Quizzes Living organisms perform chemical reactions all day, every day! These chemical reactions are what keep you alive! Take these quizzes about DNA, RNA, protein synthesis, and other major biological molecules like lipids, nucleic acids, and carbohydrates and show what you know! Photosynthesis and Respiration Quizzes Without photosynthesis and respiration, living things would not be able to get energy that is needed to survive. Show what you know about the roles of oxygen, carbon dioxide, glucose, water and ATP! Scientific Methods (Investigation and Experimentation) Quizzes Scientific methods are the techniques and tools scientists use to learn about the world! Find out how much you know about questions, hypotheses, variables, theories, laws and much more! Why use BioMan Quizzes? BioMan Biology Quizzes are a great way to assess your learning of important biology concepts and content! As a student you get immediate feedback, so that you know what you need to work on and what you already understand! As a teacher, you are able to assess student learning automatically, without having to spend a lot of time grading! Also, these quizzes help students to learn because the quiz doesn't end until all questions are answered correctly, so eventually the correct answer is discovered. If used as homework, students can use the quizzes as an amazing study tool, but random guessing is discouraged because the quiz score goes down for every incorrect response. How do BioMan Quizzes Work? Length: These quizzes are typically 20 question multiple choice quizzes that can be taken online. Randomized: The order of questions is randomized and answer choices are scrambled so that no two quizzes are identical. It is not possible to ask for the answer to question #1 since this is different for each student. Scoring: The quiz does not end until all questions have been answered correctly. The percent score is automatically calculated based off of the number of correct answers (which is the same for all students) divided by the number of attempts (which varies per student). Turning in quizzes: Students can turn in work by several methods. The first is to send it in via the built in score submission process on biomanbio.com. This only works if a teacher is registered. Secondly, students can press the print screen button on the computer to take a screenshot of their score, paste this into a word document, and print or e-mail. Genes are passed on from one generation to the next! Learn how this occurs through fun, interactive games and activities that explore genetics and meiosis! Learn about mitosis and the cell cycle too! Genetics Video Games, Virtual Labs & Activities Learn about nondisjunction and model the process in this short interactive experience. By moving the chromosomes yourself, you will see how a nondisjunction alters the results of meiosis and can result in trisomy or monosomy. You will also analyze some karyotypes to identify evidence of nondisjunction. (Estimated time: approximately 15-20 minutes) Discover how the cell cycle works and how the interphase, mitosis, and cytokinesis allow you to make more body cells in this short interactive experience! BioAgent vs. Green Zombie Toxin (Genetic Engineering 101) As a BioAgent, your job is to defend the world from biological threats, such as Dr. Vial's latest scheme. In this game, you will discover this scheme and learn how to use genetic engineering to make recombinant plasmids and transform bacteria. If successful, you will save humanity from Green Zombie Toxin! If not, it will be the end of the world as we know it! Snurfle Meiosis and Genetics 2: Diversity and Dihybrid Crosses When Snurfles reproduce, their offspring can have a lot of different traits (lots of diversity). But how? By the end of this game, you will understand how the processes of CROSSING OVER, INDEPENDENT ASSORTMENT, and RANDOM FERTILIZATION result in increased diversity of offspring! Also, you will learn how to perform a DIHYBRID CROSS! Snurfle Meiosis and Genetics Snurfles, just like any other organism, must reproduce in order to continue as a species! But how does this happen? By the end of this game, you will understand how MEIOSIS and FERTILIZATION work to make offspring! You will also see how GENETIC characteristics are passed on through these processes and the connection between meiosis and genetics! Check out the Worksheet that goes along with the game (courtesy of Ms. Pam Robinson)! Meiosis Battle Pong! Fire comets at your opponent, dodge asteroids, and keep the ball in play in this fresh twist on the classic game of Pong, all while reviewing Meiosis! This game has now been updated to work on all kinds of devices, including touchscreen mobile devices. Note: this is a 2-Player game! Test your knowledge of genetics and meiosis! These quizzes can be submitted online to your registered teacher. Please note: A quiz will not end until you have successfully answered all questions. All living things are made of cells! Learn how they work and what they are made of! Cell organelles such as the nucleus, mitochondria, chloroplasts, ribosomes, lysosomes and many more can be found here. You'll be amazed at what happens in each of your cells! Cell Biology Video Games, Virtual Labs & Activities Osmosis Interactive and Video! Watch a video explanation of osmosis with 3 real-life experiments and animations. Learn about hypertonic, hypotonic and isotonic solutions and watch osmosis in action! Then, test your understanding in a short interactive game to see if you are a master of the art of osmosis! Note: the interactive only takes a few minutes to complete. Cell Explorer: The Animal Cell Explore the microscopic world of the cell in your mini ship! Thwart Dr. Vial's evil plan to destroy cells as you battle against his army of cell-destroyers! Learn about cell organelle structure and function while having fun! You will learn about the nucleus, nucleolus, ribosomes, rough ER, smooth ER, Golgi, vesicles, lysosomes, and more! Cell Defense: The Plasma Membrane The only barrier between the cell and the dangers of the outside world is the plasma membrane. Defend your cell by building a functional plasma membrane and thwart the evil plans of Dr. Vial to destroy all life on earth! Learn how the membrane works and its parts, including phospholipids, cholesterol, proteins, and carbohydrates. Also, learn about cell transport! Check out the Worksheet that goes along with the game (courtesy of Ms. Ginnie Crotts)! Cells Quizzes Test your knowledge of Cell Biology! These quizzes can be submitted online to your registered teacher. Please note: A quiz will not end until you have successfully answered all questions. All living things are made of cells! Learn how they work and what they are made of! Cell organelles such as the nucleus, mitochondria, chloroplasts, ribosomes, lysosomes and many more can be found here. You'll be amazed at what happens in each of your cells! Cell Biology Video Games, Virtual Labs & Activities Cell Explorer: The Animal Cell Explore the microscopic world of the cell in your mini ship! Thwart Dr. Vial's evil plan to destroy cells as you battle against his army of cell-destroyers! Learn about cell organelle structure and function while having fun! You will learn about the nucleus, nucleolus, ribosomes, rough ER, smooth ER, Golgi, vesicles, lysosomes, and more! Cell Defense: The Plasma Membrane The only barrier between the cell and the dangers of the outside world is the plasma membrane. Defend your cell by building a functional plasma membrane and thwart the evil plans of Dr. Vial to destroy all life on earth! Learn how the membrane works and its parts, including phospholipids, cholesterol, proteins, and carbohydrates. Also, learn about cell transport! Check out the Worksheet that goes along with the game (courtesy of Ms. Ginnie Crotts)! CellCraft Build a cell and learn about the organelles and processes that make cells work! A great review of cell parts such as the nucleus and mitochondria, as well as chemical building blocks such as nucleic acids, amino acids and much more! Important Notice: CellCraft is working again! Please update your Flash Player if you are still having problems Cells Quizzes Test your knowledge of Cell Biology! These quizzes can be submitted online to your registered teacher. Please note: A quiz will not end until you have successfully answered all questions. You are using the Free Version of this Game (with ads). If you want to use the Ad-Free Member Version, click the button below. Please note: This will open in a new tab/window! Please save your progress before proceeding! Go to Ad-Free Member Version of This Game Topics Covered: Natural selection, variation, adaptation, selective pressures, evolution, directional selection, stabilizing selection, disruptive/diversifying selection, fitness, etc. Check out the worksheet that goes along with the game (courtesy of Mrs. Theresa Hartz) Check out another worksheet that goes along with the game, courtesy of Ms. Julie Olson!

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