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Amoeba sisters mitosis worksheet answer key

Welcome to SCIENCE! Mr. Atchley's Classes (815)433-1323 ext. 3542 -If you have any questions, please E-mail me at jatchley@ottwawahigh.com ***PLEASE NOTE THAT TUTORING SESSIONS AND LECTURES WILL REQUIRE MICROSOFT POWERPOINT. ALL STUDENTS HAVE ACCESS TO MICROSOFT POWERPOINT THROUGH THEIR OFFICE 360 ACCOUNT*** What is expected for all classes this year: The "HOW TO" Guided PowerPoint. (This will cover the basic week 1 stuff) Biology 1 (Freshman Acad and/or CoTaught Biology 1) -This class is designed to help students gain a greater understanding of the content and function of Biological Science. It is designed as an entry level class with early focus on review, moving to more advance biological science systems later in the year. This is a 2 semester course and is a "MUST PASS" for most of the students at OTHS (Meaning, if you want a diploma, you need a passing grade!) -This class is designed to maximize content and practice while still leaving time to work through critical thinking, standardized test preparation, and cross-curricular vocabulary and "root terms" This website IS A WORK IN PROGRESS, Please check back often. THE FOLLOWING LINKS ARE TO BE USED FOR IN CLASS LECTURE! THESE WILL HAVE A SKYWARD ASSIGNMENT THAT WILL GO WITH THE INFORMATION TO CHECK LEARNING (AND FOR POINTS) If you are absent (or need time to go back and review) this is the place to find the information you need. ALL OF THE ANSWERS TO SKYWARD ASSIGNMENTS ARE IN THESE LINKS!!! LESSON 1 Class intro, emergency staff, intro to science LESSON 1 Youtube video Scientific Method LESSON 2 Sci method and good science LESSON 2 Youtube video "Fact vs. Hypothesis vs. Theory vs. Law LESSON 3 Biology and Microscopes LESSON 3 Youtube Video Amoeba Sisters Microscopes LESSON 4 Homeostasis and Diffusion LESSON 4 Youtube Video Homeostasis SUPPLEMENTAL LESSON motivational video This video has a skyward assignment that must be completed with it (just like ALL of these links) LESSON 5 Good Experimental Design. (This PPT does not have audio) LESSON 7 Surface area and diffusion LESSON 7 Video: Kurzgesagt Size of Life part 1 LESSON 8 Osmosis and Equilibrium LESSON 8 Video: Kurzgesagt Size of Life Part 2 LESSON 9 Osmosis and Gatorade LESSON 9 Article: Water versus Sports Drinks LESSON 9 Video: Reactions. What do Electrolytes really do? LESSON 9 in class Red Onion video LESSON 9: Hold Your wee for a Wii Video LESSON 10 Positive Feedback (and negative feedback overview) LESSON 10 Video: NBT: Cherry Blossom Festival (Pos. Feedback) LESSON 11 Negative Feedback LESSON 11 Video: Amoeba Sisters - Positive/Negative Feedback LESSON 11 Supplemental Video - Bozeman Feedbacks (In class) SUPPLEMENTAL Fake News TedX Talk LESSON 11.5 Claim. Evidence. Reasoning LESSON 11.5 Video Bozeman CER LESSON 12 Kurzgesagt Video: What are you? LESSON 12 PPT: Importance of DNA LESSON 12 Video: Griffith Experiment LESSON 12 Video: Avery Experiment LESSON 12 Video: Hershey and Chase Experiment LESSON 12 Video: Kurzgesagt - The Deadliest Being on Planet Earth LESSON 13 Secrets of Photo 51 (condensed) LESSON 13 Structure of DNA LESSON 14 Amoeba sisters Protein synthesis (transcription and translation) LESSON 15 Video: Biology Crash Course ---end sem 1 LESSON 16: Mutations, Principles of dominance and zygosity LESSON 16 Video: Bozeman Mutations LESSON 17: Zygosity and Pedigrees LESSON 17 Video: Amoeba Sisters Pedigree Charts LESSON 17.5 Video: Amoeba Sisters Sex linked Traits LESSON 18 start video (no skyward assignment): Salamander cell division LESSON 18: The Cell Cycle LESSON 18 Video: Amoeba Sisters Cell Cycle and Cancer LESSON 19: Meiosis and crossing-over LESSON 19 video: Crash Course Meiosis ---end genetics unit--- Darwin's Dangerous idea video LESSON 20: Darwin's Rules PowerPoint LESSON 20 Video: Elesapiens Darwin's Theories LESSON 21: The Old Earth PowerPoint LESSON 21 Video: Summartano How Old is the Earth LESSON 22: Early Earth Activity LESSON 22 Video: PBS Space Time How We Know The Earth is Ancient LESSON 23: Extinction, Fossils & Radioactive dating LESSON 23 Video: PBS Space Time: How we know the Earth is Ancient LESSON 23.5: PBS EONS Whale evolution Video no skyward quiz LESSON 24: Homologous and Vestigial Structures LESSON 24 Video: Sci Show Vestigial Structures LESSON 25: Types of Selection LESSON 25 Video: Crash Course Natural Selection LESSON 26: Speciation and Evolutionary Anthropology LESSON 26 Video: Amoeba Sisters Speciation ---end evolution unit---- LESSON 27: Basic Chemistry LESSON 27 Video: AtomicKids Atom Structure LESSON 28: Photosynthesis LESSON 28 Video: Amoeba Sisters Photosynthesis LESSON 29 Video: Crash Course Respiration LESSON 30: Earth's Cycles LESSON 30 video: The water cycle LESSON 30 Video: Carbon Cycle LESSON 30 Video: Nitrogen/Phosphorus cycle Tutoring Sessions (Click these for some extra guided help) AND Covid 19 tutoring sessions and guided work. Balancing Chem Equations Tutoring Evolution tutoring session: Watch the following videos. This is a simple 11 minute long video that I hope will give you both a brief overview and a nice thought motivator. This is a long video (just under 2 hours) but it is full of great information connecting evolutionary theory to Darwin's Theory of Evolution. Feel free to break it up into several viewing sessions. Complete the following worksheet. Feel Free to write these answers on a separate sheet of paper. Evolution Tutoring Session: Darwin's Rules of Natural Selection This tutoring session covers the rules of Natural selection as stated by Charles darwin. Hopefully this will help you all as you are working through chapter 9 and 10 in APEX. Once click on this file, you will need to open it from the bottom left of your screen. (You need PowerPoint or you Microsoft 360 account.) It'll be a big file (my beautiful voice requires a lot of data!) Evolution/natural selection Tutoring session: Natural Selection. DON'T STOP LEARNING! ...AND STAY DISTANCED!!!! ...AND MASKED!!!! STAY SAFE!!!! ----- Worksheets and simulations: ----- Adv. Biology (Jr and Sr) ----- This is an advanced class designed to focus on college level curriculum -----The text for this class room is AP level -----Students should expect to do significant amounts of reading, note taking, and outside of class work Advanced Biology (Flipped Classroom) Audio PPT Files UNIT 1 DAY 1 DAY 1 (Emergency and Science intro) Week 1 Article 1: 5 hour rule UNIT 1 DAY 2 (Sci Meth then and now) UNIT 1 Day 2 Youtube video "Fact vs. Hypothesis vs. Theory vs. Law UNIT 1 Day 3 (Facts, theories, and the first two themes) UNIT 1 DAY 4 (The remaining themes) UNIT 1 DAY 4 Bozeman Positive/Negative Feedback Week 2 Article 1: Are scientists cynical Week 2 Article 2: The cynical genius illusion. (Summary over this one) -End unit 1---- Unit 2 Day 1 The basics of basic chemistry Week 3 Article: Supercomputers, COVID-19, and Bradykinin Unit 2 Day 2 Types of reactions video Unit 2 Day 3 Types of reactions part II (Acid Base - REDOX) Unit 2 Day 3 Youtube video Bozeman pH This video has a skyward assignment that must be completed with it (just like ALL of these links) Week 4 article 1: Healthline pH article Week 4 article 2: Vincera institute article For these two week 4 articles you need to summarize both and pay careful attention to author bias, cynicism, flagged information. Summarize both with as much compare/contrast as possible. Unit 2 Day 4 Chemistry of Water Unit 2 Day 4 Video Biology Crash Course Water The week 5 articles are unrelated but both will be discussed for points at the end of the week. Good lab format and process DoaP Youtube video (Good video to get the idea... but you need to do a better job of controlling the experiment then they do!) Surface tension video: BBC Week 6 Article: LA Times Legos of life article ---end unit 2--- week 7/8 Article: Massive Science: Scientists have revised... RNA World Unit 3 Day 1 Organic/Bio. Intro and Nucleic Acids Bozeman Nucleic Acid video Unit 3 Day 2 Video (WATCH FIRST!) No skyward assignment. Unit 3 Day 2 PPT. RNA World Hypothesis Unit 3 Day 2 Video: IOKTBS Where did life come from video (this is the one with the skyward assignment) HOE: How did life begin? Video (Has Skyward assignment) Week 9 Article 1: Prebiotic Chemistry of Sugars RNA World Hypothesis assignment Example RNA World Hypothesis Comic Transcription/Translation Overview (no quiz) Week 10 Article: Colleges Turn to Wastewater Testing Week 10 Article: Nature: Sars-CoV-2 and Covid-19 Kurzgesagt Video: What are you? Unit 3 Day 3: Proteins intro thru isomers Unit 3 Day 3 Video: Bozeman Proteins Functional Group Basic Overview Video Week 11 article: The unseen survivors of thalidomide Unit 3 Day 4: Thalidomide and Protein Structure Unit 3 Day 4 Video: SciShow Thalidomide Unit 3 Day 4.5: The Huntington Story Unit 3 Day 4.5 Video: HDYO Mandy's Story Week 12 article (week of 11/9): Hope for Huntington's (Careful clicking this link too many times... This website only allows you to access so many articles for free) Unit 3 Day 5: Protein Function Unit 3 Day 5: SciShow Mad Cow Disease (supplemental... no skyward assignment) Week 13 article (week of 11/16) Chemistry World: Corona Virus Testing Unit 3 Day 6: Carbohydrates Unit 3 Day 7 Video: Bozeman Carbohydrates Unit 3 Day 7 Video: Bozeman Lipids Unit 4 Day 1: Cells and Osmosis Unit 4 Day 1 Video: Kurzgesagt Size of Life 1 (Skyward assignment) Unit 4 Day 1 Video 2: Kurzgesagt Size of Life 2 (Skyward assignment) Unit 4 Day 1 Video 3: Kurzgesagt Size of Life 3 (No Skyward assignment) Unit 4 Day 1 Video 4: Bozeman Water potential (Skyward assignment) Week 14 Article: Science Daily. Synthetic organelles Week 14 Article II: Michigan Science: Understanding the membranes of membraneless prokaryotic "organelles" Unit 4 Day 2 Intro Video: Cell structure and Viruses/Prokaryotes Unit 4 Day 2 Video: Bozeman Tour of the Cell Unit 4 Day 2 Video: Gravity Max: Square Cube Law ----- Unit 5 Day 1: Intro to photosynthesis (Note this is chapter 10 in the textbook) Unit 5 Day 1 Video: Amoeba Sisters-Basic Photosynthesis Overview Week 15 Article: SciTechDaily-Artificial photosynthesis Unit 5 Day 2: Light Reactions Unit 5 Day 2: Crash Course-Photosynthesis (This has both Light and Light Independent Reactions) Unit 5 Day 3: Light Independent Reactions Unit 5 Day 3: Bozeman Photosynthesis ----- Unit 6 Day 1: Introduction to Cellular Respiration Unit 6 Day 1 Video: Amoeba Sisters Basic Intro to Respiration Sem. 2 Article Sum 1: The new Covid Unit 6 Day 2 Video: Medsimplified Glycolysis Unit 6 Day 3: Krebs and ETC Unit 6 Day 3 Video: Crash Course Respiration Sem 2 Article Sum. 2: Silver Bullet for Covid? Unit 6 Day 4: Fermentation Unit 6 Day 4: Bozeman Cellular Respiration Sem 2 Article (Discussion only) 3: 3 Big Questions Covid Sem 2 Article (Discussion only) 3: Why we should still wear a mask Glycolysis simulation video Oxidative Phosphorylation simulation video Electron Transport Simulation video ----- Unit 7 Day 1: Transduction, Quorum Sensing, and G-Proteins Unit 7 Day 1 Video: Khan Academy G-Proteins Sem 2 Article Sum 2: GPCR pathways (This is a short read but potentially requires some additional work to fully understand) Unit 7 Day 2: TKRs, ion channels, and action potentials Unit 7 Day 2 Video: Bozeman Action Potentials Action Potential Video: Crash Course (no quiz) Synapse Video: Crash Course video (no quiz) G-Protein simulation video (no quiz) TCR simulation video (no quiz) Unit 7 Day 3: Phosphorylation cascades, amplification, and secondary messengers Unit 7 Day 3 Video: Bozeman Signal Transduction Sem2 Article Summary 3: Sensation versus Perception Apoptosis simulation (no quiz) Unit 7 Day 4: Transcription factors and Apoptosis Unit 7 Day 4 Video: Khan apoptosis Sensory Transduction Kahoot -----end unit 7----- Crash Course Cell Division Video (NO QUIZ) Unit 8 Day 1 Video: Amoeba Sisters Cell Cycle Sem2 Article Summary 4: Telomeres and Covid-19 Unit 8 Day 2 Video: Bozeman Cell division Unit 8 Day 3: Finish Mitosis and Binary Fission Unit 8 Day 3 Video: Khan Cell cycle Unit 8 Day 4: Working on Stop Motions. VIDEO: KHAN ACADEMY INDIA: Fission ---end unit--- Unit 9 Day 1 Video: Crash course Meiosis Unit 9 Day 2 After Mendel conversation Video (No skyward Quiz) Unit 9 Day 2: Alternation of generations and Mendel Sem2 Art. Sum. 5: Covid-variants SciNews. Unit 9 Day 3: Punnett Squares Unit 9 Day 3 Video: Bozeman Intro to Punnett Squares Unit 9 Day 3 Supplemental Video: Bozeman Hardy Weinberg Sem2 Art. Sum. 6: American Eugenics Article Unit 9 Day 4: Non-mendelian genetics Unit 9 Day 4 Supplemental video: Bozeman Advanced (Non-Mendelian Genetics) Unit 9 Day 5: Linkage groups; sex linked Punnett Squares and non-disjunction mutations. Unit 9 Day 5 Video: BOBGIology - Chromosomal abnormalities Unit 9 Day 5 Supplemental Video: Khan Academy Sex linked P-Square example Fast Plants Lab setup with P generation Day 1 Pics Fast plants P generation day2; F generations day 1 Fast Plants P generation day3; F generation Day 2 Fast Plants P generation day 6; F generation Day 5 Fast Plants P generation day 7; F generation Day 6 Fast Plants P generation day 8; F generation Day 7 Bozeman Chi-squared Test Video Crash Course Chi-Square Tests (Statistics) Khan Academy Chi Square Test Amoeba Sisters (EASY STARTING POINT) Hardy Weinberg Equation Video Bozeman Solving Hardy Weinberg Problems ---end unit 9--- Unit 10 Day 1: DNA History, replication and excision repair Unit 10 Day 1 Video: Bozeman DNA Replication Unit 10 Day 2: Transcription, Processing, and Translation Unit 10 Day 2 Video: Protein synthesis Crash Course -----end unit 10----- Sem. 2 Article Sum. 7: Example research paper #1 (Summarize this and be able to discuss like a normal article.) Intro Video (no skyward assignment) Kurzgesagt Blue Whale Cancer Why We Don't Have cancer all the time video (no skyward assignment) Unit 11 Day 1: Advanced Genetics "cancer unit" overview Unit 11 Day 1 Video: Armando Oncogenetics VIDEO: BRCA1 & BRCA2 Video (no skyward assignment) Unit 11 Day 2: SNPs, GWAS, and CRISPR Unit 11 Day 2 Supplemental: Bozeman CRISPR Unit 11 Day 2 Supplemental: Kurzgesagt designer babies Sem 2 Article 8: CRISPR Research Sum. Example research paper number 2 Asthma Epigenetics Article Unit 11 Day 3: Epigenetics and gene control Unit 11 Day 3 Video: SciShow Epigenetics Sem2 Article 9: Genetics of Autism Research Paper (Example #3) Unit 11 Day 4: Cancer's End (no skyward quiz) ----- Dr. T. Ch 1-5 Reading Articles (These have Skyward Quizzes) Unit 12 Day 1: Ecology, Darwin, fossils, types of selection, prox/dist cause Unit 12 Day 2: Evolutionary Rules 1-3 and ecological impacts on a changing environment Unit 12 Day 3: The Selfish Gene Unit 12 Day 3 Video: Stated Clearly: The selfish Gene Unit 12 Day 4: The Red Queen and the Sexy Son Unit 12 Day 4 Supplemental: PBS. Evolutionary Arms Race (no skyward) Unit 12 Day 5: The big no no's: vestigial & homologous structures Unit 12 Day 5 Video: Bozeman Cladograms Unit 12 Day 5 Supplemental video: Khan Cladistics (no skyward assignment) Unit 12 Day 6: Speciation and Hardy-Weinberg Equilibrium Unit 12 Day 6 Video #2: Bozeman Solving Hardy Weinberg Problems (there is a skyward assignment for this video) Unit 12 Day 7: Evolutionary Anthropology: Sapiens Ch.1 Review Kahoot for the test: AP BIOLOGY TEST REVIEW VIDEOS (Keep in mind a lot of these videos start with test skills and end with shoutouts, so they are actually a lot shorter than they say. AP BIOLOGY Labs REVIEW VIDEO: Bozeman Labs 1. This has several of the labs that we have not or do not do (remember, we are not an AP lab class). I strongly suggest watching these AND asking questions if you need help!!! AP BIOLOGY Labs REVIEW VIDEO 2: Bozeman Labs 2 Functional Group Presentations: Benzene Rings and Phenyl Groups Carboxyl audio (MP4 file) Tutoring Sessions: AP test questions 1-9 tutoring session. You will need microsoft PowerPoint to open this (with audio). You should have access to PowerPoint through microsoft 360. New tutoring sessuo over genetics packet below. Tutoring session: DNA Replication and DNA excision repair In class PowerPoint Lectures (These are PDF files that mimic the PowerPoints used for lecture in Biology I) -Adv. Biology Chapter 1 "Themes of Biology" Adv. Bio Chapter 2 "Chemistry in Review" Adv. Bio. Ch 2 New Chem. with reaction Adv. Bio. Ch 4 & 5 Biochemistry Adv. Bio. Ch 10 Photosynthesis Adv. Bio. Ch 9 Glyco and Resp Adv. Bio. Ch 11 Cell Signals Adv. Bio. Ch 13 & 14 Meiosis and Intro Genetics Adv. Bio. Ch 16 & 17 DNA, Transcription, and Translation Adv. Bio. Ch 18 Advanced Genetics and CANCER Adv. Bio. Ch 23 & 24 Evolution RNA WORLD HYPOTHESIS EXAMPLE Mitosis stop motion video example Mitosis stop motion example Semester 1 Root Words: Semester 1 Root Words List #1 Root Definition Example(s) Bio - Life (Biology;Geology; Proctology; Eurology) Eu - good, well, pleasant, true (Eukaryotic;Eugenics; Euphoria; Eutopia) Pro - onbehalf of, in place of, before, for (Prokaryotic;Project; Procure; Protect; Provide) in exchange for, just as, taking care of of Micro - small (Microscope;Microcephaly; Microchip; Microprocessor) List 2 Ton(o)(ic) - Pressure, tension, solute Hypertonic;hypertonia; tonicity, tonoblast; isotonic, mytonia Hyper - Over Hypertonic;hyperventilate; hyperactive; hypertension Hypo - under, below Hypotonic;hypothermia; hypodermic; hypotenuse, hypoglycemic Iso -equal, the same isosceles;isotonic; isobutene; isoantigen Hom (o) (eoe) Man (Latin), Same (Greek) Homeostasis,Hominid, Homogenous List 3 Endo- Within, inside Endocrine,Endotherm, Endoskeleton, Endocardial Exo - Outer, outside, external Exotic,exothermic, exoskeleton, exogenous A(n) - Not, without Abiotic,Acoelomate, Asexual, Anaerobic, Anorexic Ab - Off,from, away Aboral,Abnormal, Abstract, Absent, Abolish Ad -To,toward Adoral, Adhesive, Adjective,Advance, Adjacent, Advertise Gluc/Glyc - Sugar Glucose,Glycogen, Glycemic, Glucagon List 4 Mono- One, single, lone Monomer,Monograph, Monarch, Monogamy, Monocle Poly- Many Polymer,Polynesia, Polysyllabic, Polynomial, Polygon-Mer - part, piece Polymer,Monomer, Isomer, Dimer, Enantiomer Mer (Mar)- Sea, pool Maritime,Marines, Mermaid, Marmot Trans- across Transcription, Translation,Transportation, Transgender, Transfer Scribe (Script) - Write Transcribe,Transcription, Circumscribe, Scripture, Scribble Anti- Against, opposite Antifreeze, Antidote, Antonym,Antacid, Antichrist, Antidote -If you have any questions, please E-mail me at jatchley@ottwawahigh.com "The reason a lot of people do not recognize opportunity is because it usually goes around wearing overalls looking like hard work." -Thomas A. 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