Preview is a compressed (hic e and check your wor https ch?v=zGVBAHAsiJM&feat along the meaning e plate in manphus cens. Chromosomes

and the answer

· Name this phase of Mitosis.

- Chromatin draws together to create

- Spindle fibers form.

- Cell grows and develops (gets b
- Chromosomes not visible

Most of cell cycle (90%)

Nucleus intact

Interphase

DNA is copied

Chromatic





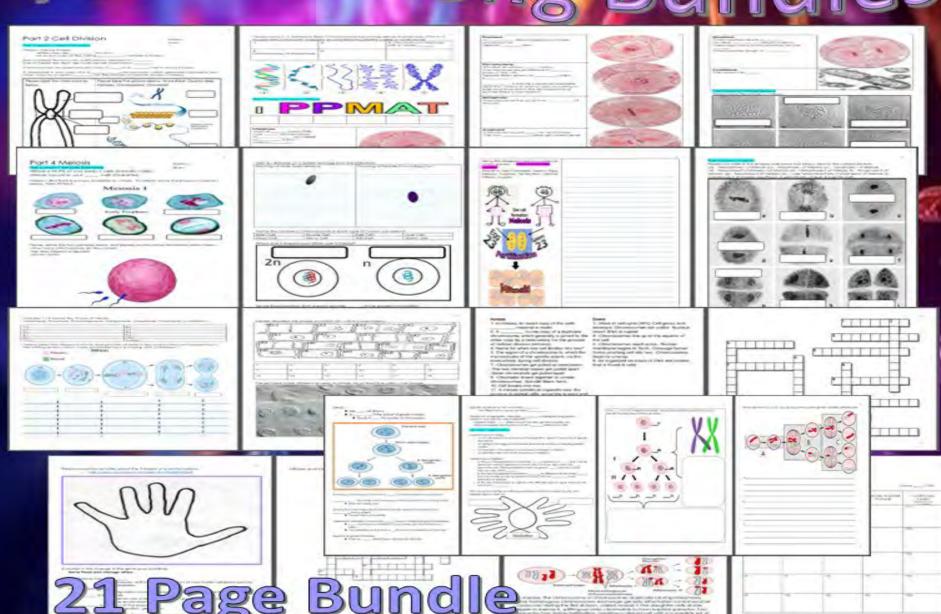
es get split a dentical copies part



A minute cylinorical organelle near the nucleus in animal cells, occurring in pairs and involved in the development of spindle fibers in cell division



Follow Along Bundles



Activities, Assessments, Keys, and more all built-in



Part 2 Cell Division: 6 Lessons of 50 minutes and 9 Page Follow Along Work Bundle, Why do we Age?, Mitosis, Time Lapse of Cells Dividing, Chromosomes, Structure of a Chromosome, DNA Wrapping, Chromatin vs. Chromosome, Steps Chromosome formation, Phases of Mitosis, PPMAT, Details with Visuals and Explanations, of Each Phase, Interphase, Prophase, Prometaphase, Metaphase, Anaphase, Telophase, Cytokinesis, Mitosis Song, Review of Phases with Visuals, Complete a Mitosis Puzzle Activity, Visual Quiz of Mitosis, Box Game Review, Explanation of Why we Age, Mitosis Simulation with Gummy Worms, Crossword Puzzle, End Unit Assessment

arts 2-4, Mitosis, Cancer, Meiosis

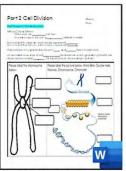


Additional and Printables

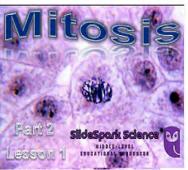


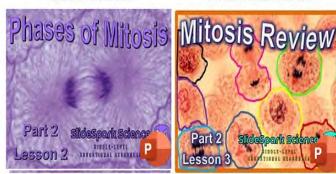


Part 2 Cell Dision Work Bundle Digital

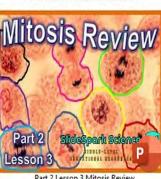


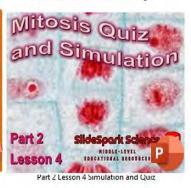
Part 2 Cell Dision Work Bundle Print





Part 2 Lesson 2 Phases Mitosis







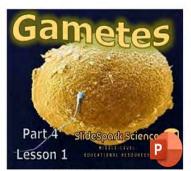
Parts 2 Lesson 5 Review Game



Parts 2 Lesson 6 Answers Review Game

Part 4 Meiosis, 4 Lessons of 50 minutes and 12 Page Follow Along Work Bundle, Somatic Cells vs. Gametes, Haploid vs Diploid, The Reproductive System, Ovum, Male Gamete, Step by Step Drawing of Male Gamete, Flagella, Male Gamete Motility, Step by Step Drawing of Ovum, Zygote, Fertilization, Phases of Meiosis, Two Cell Divisions, Synapsis, Homologous Recombination, Meiosis Puzzle Challenge, Independent Orientation, Reduction Division, Genes, Mendel's Law of Segregation, Important Events in Meiosis Review, Mendel's Laws of Heredity, Meiosis Simulation with Gummy Worms as Chromosomes Activity, Box Game Review, Connection of Meiosis to Genetics and Evolution, Crossword Puzzle, End Unit Assessment

Parts 2-4, Mitosis, Cancer, Meiosis

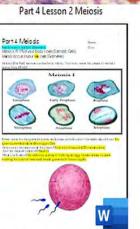


Part 4 Lesson 1 Sex Cells

.essom 5

Meiosis Review Game Answer Version





Part 4 Lesson 5 Answer Review Game

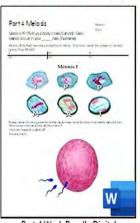
SlideSpank Science



Part 4 Work Bundle Answers



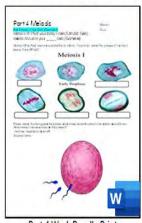
Part 4 Lesson 3 Meiosis Wrap Up



Part 4 Work Bundle Digital



Part 4 Lesson 4 Meiosis Review Game



Part 4 Work Bundle Print

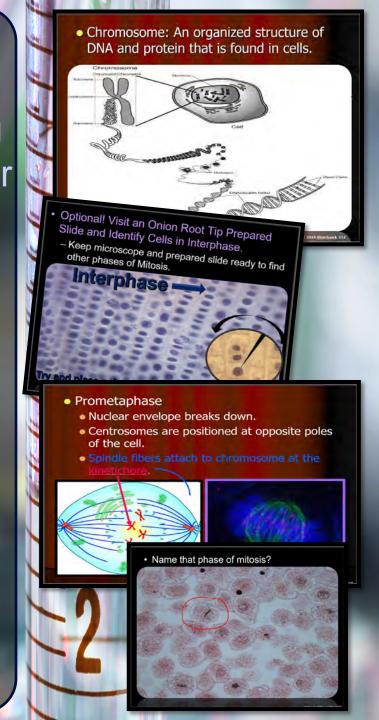
SlideSpark Science

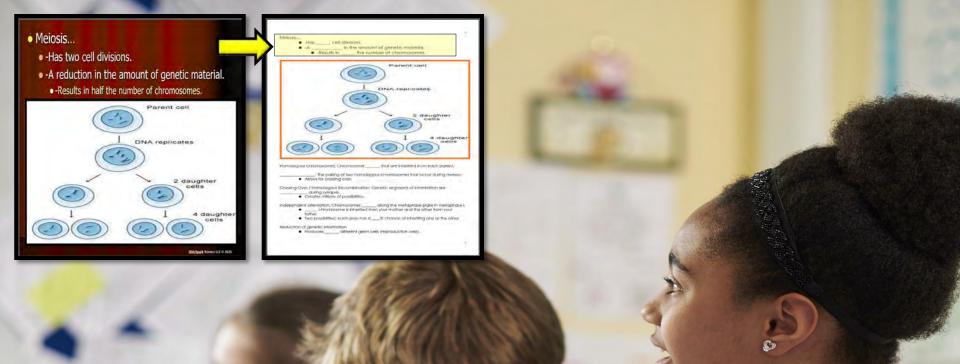
MIDDLE-LEVEL EDUCATIONAL RESOURCES



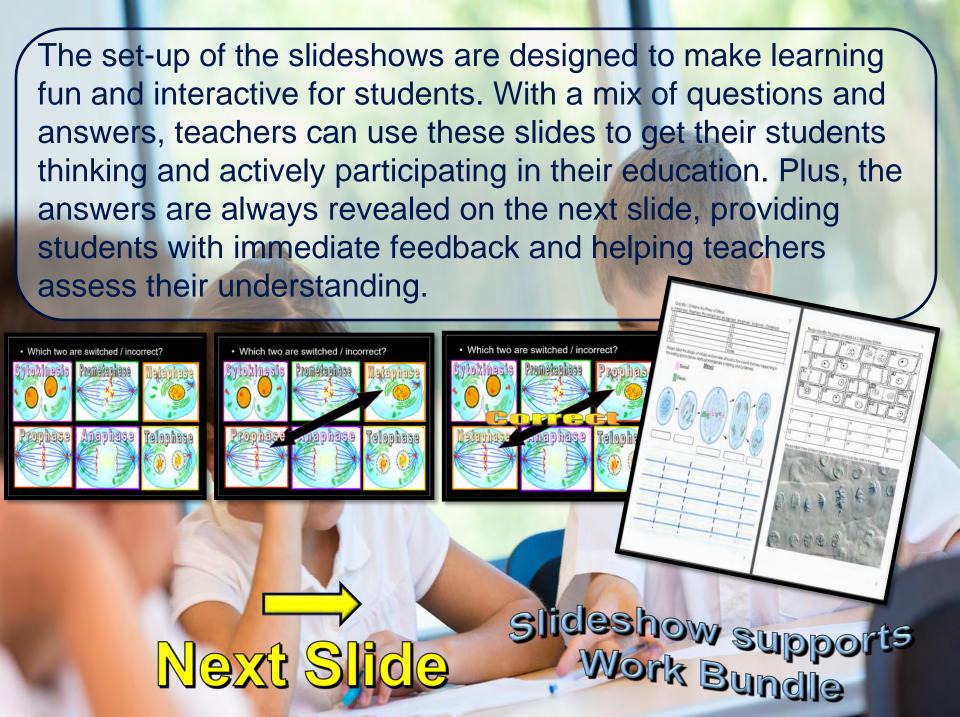
Interactive slideshows provide the roadmap for an amazing learning experience for students in grades 5-9. A Detailed set of work bundles chronologically follow the digital learning, providing a clear and intuitive roadmap to understanding. As the teacher or student advances through a slideshow, exciting hands-on activities, fantastic visuals, fill-in notes, review opportunities, video links, assessments, and much more are strategically placed throughout. Interactive learning unfolds step by step and supported by the work bundle to reach all types of learners. Everything you need to run to an amazing learning experience is provided in this one-of-a-kind science curriculum.

Each unit in the curriculum is designed to help teachers deliver the best possible learning experience for their students. Our interactive science slideshows are filled with questions and answers, important fill-in notes, hands-on activities, projects, games, built-in quizzes, and end of the unit assessment pieces. Students follow along with a work bundle that documents the entire learning experience for a fantastic review and assessment piece.





Red Slide Notes: Help students record important information in a fun and easy-to-understand way. Designed red-colored slides contain a few pieces of crucial information that students must record into their work bundle to complete the notes. Students will use these important notes throughout the work bundle.



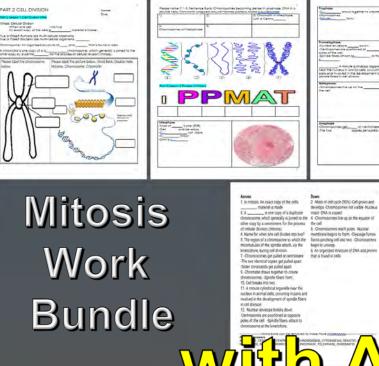
Lesson Planning

Daily lessons space exciting hands-on activities, red slide notes, video and academic links, projects, simulations, readings, built-in quizzes, and review opportunities throughout the slideshows. A typical day may have many different learning styles being targeted. Daily lesson planning becomes advancing through the slideshow roadmap the night before. Each lesson is roughly 50 minutes, but sometimes things can speed up or slow down. The best strategy is just to go at your classes own pace. The work bundle chronologically follows the interactive slideshow and you can always spend extra time assessing the quality of the writing within. If you don't quite finish a lesson, you can always pick it up the next day where you left off. The only real trick in timing is not starting a larger activity if you don't have the available time to complete. The slideshows have been designed to be a low stress, go at your classes own pace experience. Most activities are designed to be cost effective, using general materials that can be gathered from your local stores.

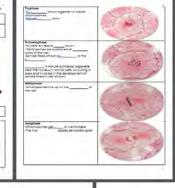


Follow Along Work Bundle

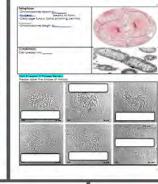
Each science unit comes with several work bundles. The bundles should be printed before the unit begins and distributed to the students on the first day of the unit. The work bundles will be due shortly after the completion of the unit. The work bundle will become a resource for the review games, crossword puzzles, and will be collected for assessment. The work bundle follows the entire learning experience and will be used every day. They are chronological to the lessons and provide places to record fill-in notes, answer questions, collect data, graph and much more. An answer version is provided that can that be distributed to your support professionals. A digital version of the work bundle and some writable .pdf versions are provided if you want to go paperless. These work bundles are perfect for students looking for an easy and organized way to track their progress and stay on top of their studies.

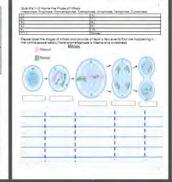


Part 2 Cell Division



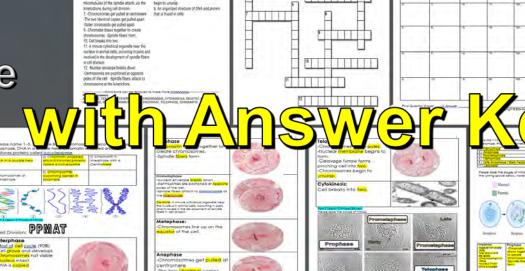
Own
2 -Most of cell cycle (90%) -Cell grows and develops -Chismosomes not visible -Nucleus

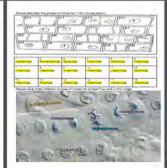


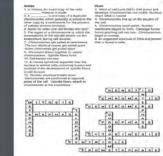


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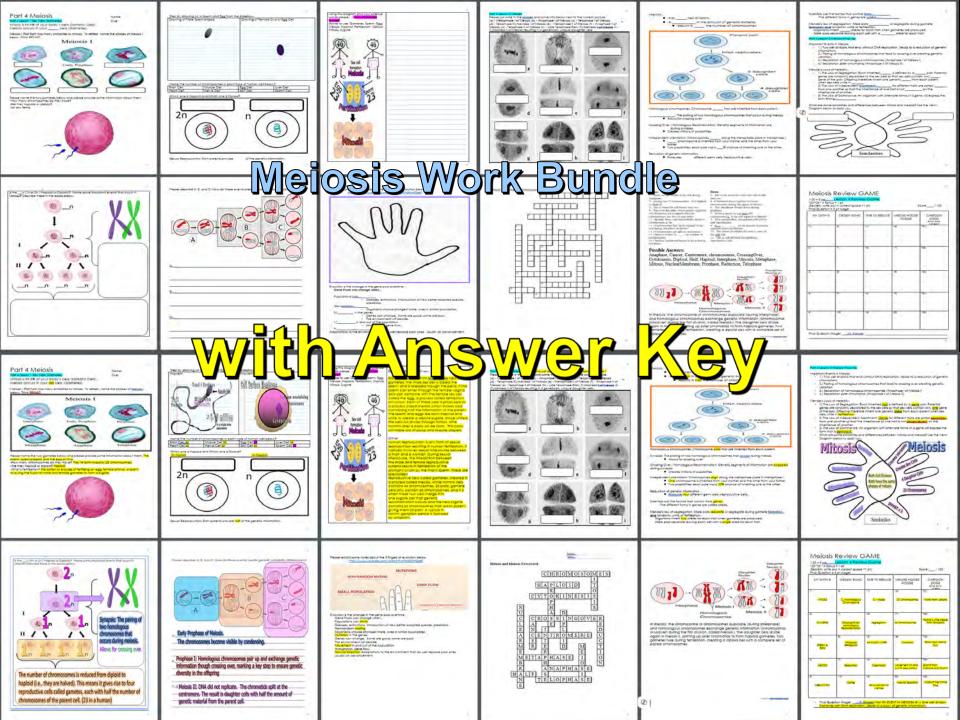




get pulled apart

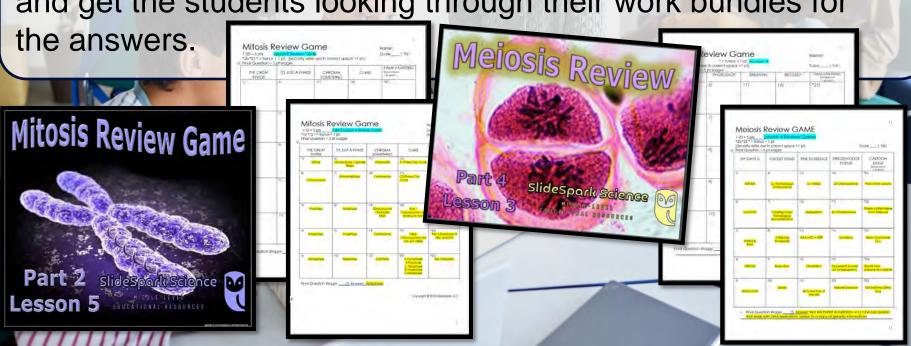


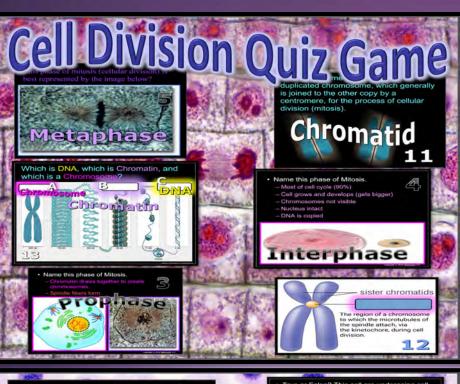
Anephase



Review Game / Assessments

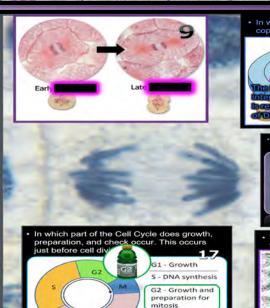
This unit concludes with a review quiz. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided in the work bundle. Students can benefit from working together in small table groups with quiet communication. You can decide if you want to allow the use of work bundles or not. These are a nice review opportunity and get the students looking through their work bundles for











M - Mitosis

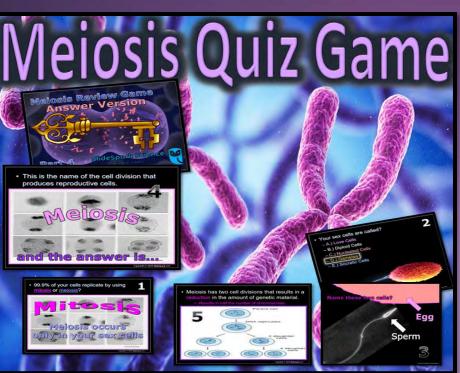
(cell division)

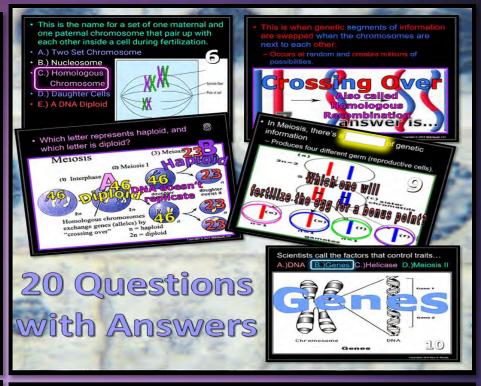


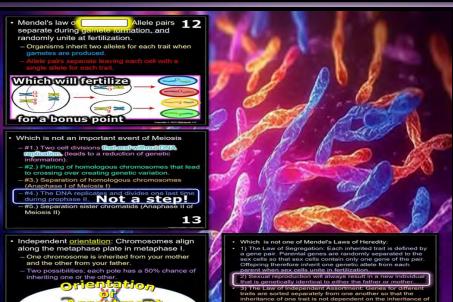


 This is the term when the cell breaks into two identical cells?









14

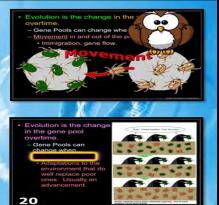
The Law of Dominance: An organism with altered a gene will express the form that is dominant.

15



How many chromosomes are in the sex cells

of a human?



2.) Pairing of homologous chromosomes that lead to crossing over creating genetic variation.
 3.) DNA replicates during Anaphase I of Meiosis I to create two identical cells.
 4.) Separation of homologous chromosomes (Anaphase I of Meiosis I)

· Which is not an Important Event of Meiosis

Activities / Labs

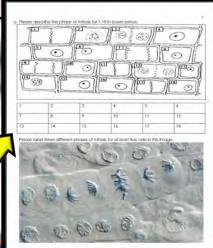
Our science activities are designed to help students explore and understand complex scientific concepts in an engaging and interactive way. Each science unit includes several hands-on activities that encourage students to collect data and think critically about the world around them. Our easy-to-follow slideshow provides detailed visuals, simple materials, and clear directions, making it easy for both students and teachers to navigate the activities.



Built-in Assessment

Each unit contains several built-in assessment questions that students answer in their work bundle. With the question revealed before the answer, the teacher can easily call on individual students or table groups to respond. These provide an effective and efficient way for teachers to assess student learning.





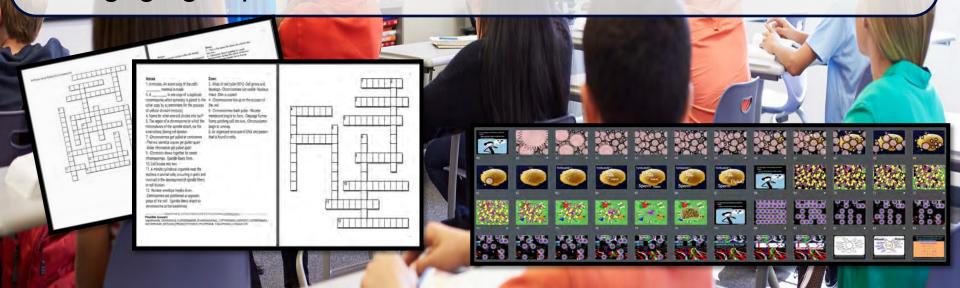
Built-in Video Links

Our science education program is designed with the modern, multimedia learner in mind, and our video links are a perfect complement to our educational materials. These short clips are embedded into the slideshow at just the right places for a fantastic review. Whether you're studying biology, chemistry or physics, our video links are an excellent way to reinforce your learning.



Games and Review

Games are a fantastic way for students to learn scientific concepts while having fun. We incorporate a variety of games into our curriculum, including interactive quizzes and puzzles that challenge students to think critically about the material. Our Hidden Box Games are a particularly popular feature, which conclude each unit by revealing a picture related to the topic. Students try to guess what the picture might be, making learning an engaging experience.





The Owl - Each Part of the slideshow has a small clipart Owl hiding somewhere in a slide. The owl is incredibly small and blended into just the right slide. If a student spots the "Owl" they can raise their hand high into the air. When you call upon the student they can say "Owl" and be the student who spotted the Owl. Each PowerPoint Review game also has an owl hiding in it worth one point. Remind the students that they secretly write the word "owl" rather than yell it out during the review games. The Owl search is not included in every lesson. A slide at the beginning of the lesson will alert the students that today is an "Owl' day. Everything arrives editable so delete if you wish. You will find that some students will become the expert owl hunters in the group.

Google Classroom Compatible

Our digital learning programs are designed for students to learn science in a flexible and engaging environment. Our Google Classroom-compatible units provide a seamless learning experience whether your students are in the classroom or learning from home. Our step-by-step slideshows and student work bundles ensure that students can complete their work independently. The PowerPoint Slideshows and step-by-step work bundles can easily be loaded to your Google Drive and posted in your Google Classroom. These are great for daily lessons, students who need additional time, and for a student who was absent and looking to catch up in their work bundle.



Part 2 Lesson 3 Mitosis Revi...
Google Slides



Part 2 Lesson 2 Phases Mito... Google Slides



Part 2 Lesson 1 Cell Division...
Google Slides



Parts 2 Lesson 5 Review Ga...
Google Slides



Part 2 Lesson 4 Simulation a...
Google Slides



Part 4 Lesson 3 Meiosis Wra...
Google Slides



Part 4 Lesson 4 Meiosis Rev...

Google Slides



Part 4 Lesson 1 Sex Cells
Google Slides



Part 4 Lesson 2 Meiosis

Google Slides



Many slides will have relevant terms covered with a box. When advancing through the slideshow an outline around the box will glow with a bright color. The next slide will make the box disappear. These slides allow the teacher to call upon students or table groups / check for understanding before advancing. The team at SlideSpark has found that using this technique helps to keep the students focused. Constantly recalling and reviewing information learned is necessary when moving through a large unit. The slideshows don't just give everything away for free. Students should be able to demonstrate knowledge before moving on. Some slides have full questions instead of just covered terms. In these slides, the teacher should encourage small group work. The teacher can then call upon one or two groups to share before advancing the slide. The next slide will always reveal the

correct answer.



DNA and Genetics Unit

DNA and Genetics Unit, Cell Division

DNA and Genetics Unit 42 Lessons 6 Parts. (8th-10th Most Difficult) Part 1 is an Introduction to DNA and contains 9 Lessons and 13 Page Work Bundle. Part 2 about Mitosis and contains 6 Lessons and 9 Page Work Bundle. Part 3 explores Cancer / Anti-Smoking and Vaping and has 8 Lessons and 9 Page Work Bundle. Part 4 investigates Meiosis and contains 4 Lessons and 12 Page Work Bundle, Part 5 is about Genetics. and contains 12 Lessons and 16 Page Work Bundle. Part 6 Explores Genetic Disorders, Karyotypes and some issues in Bio-Ethics. It has 6 Lessons and 11 Page Work Bundle.

The DNA and Genetics Unit: DNA, DNA Extraction, Structure of DNA, Discovery of the Double Helix, Rosalind Franklin, Nucleotides, RNA, Cell Division, Mitosis, Phases of Mitosis, Chromosomes, Cancer, Ways to Avoid Cancer, What is Inside a Cigarette?, Facts about Smoking?, Anti-Smoking Ads, Meiosis, Phases in Meiosis, Mendelian Genetics, Gregor Mendel, Punnett Squares, Probability, Dihybrid Cross, Codominance, Incomplete Dominance, Karyotypes, Bio-Ethics, GMO's, Genetic Disorders, Stem Cell Debate, Cloning Debate.

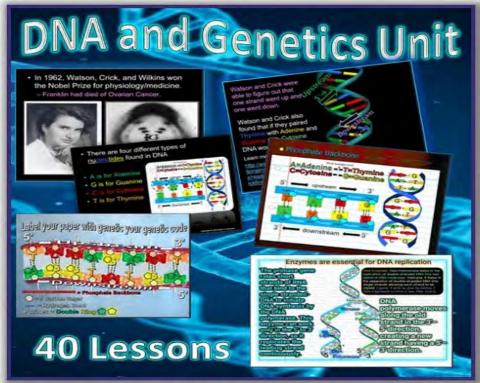
Part 1: DNA 9 Lessons of 50 minutes and 13 Page Follow Along Work Bundle, Introduction to DNA, DNA Extraction Lab with Split Peas, DNA structure and Role, Double Helix, Flow of Information, DNA to RNA to Proteins, Transcription, Translation, Friedrich Miescher Isolation of DNA, DNA's Discovery Case Study and Reading, Watson and Crick 1953, Maurice Wilkins, Rosalind Franklin, X-Ray Diffraction, DNA's Structure, Step by Step Drawing and Labeling of DNA, Nucleotide, Base Pairs, Adenine, Thymine, Cytosine, Guanine, Games with Base Pairs, Phosphate Backbone, Ribose Sugar, RNA, Differences between RNA and DNA, Build DNA Model, Review of the Flow of Information, DNA Replication, Step by Step Diagram of DNA Replication, Inherited vs. Acquired Traits, Eukaryotic Cells, Prokaryotic Cells, Box Game Review, Crossword Puzzle, Unit Assessment.

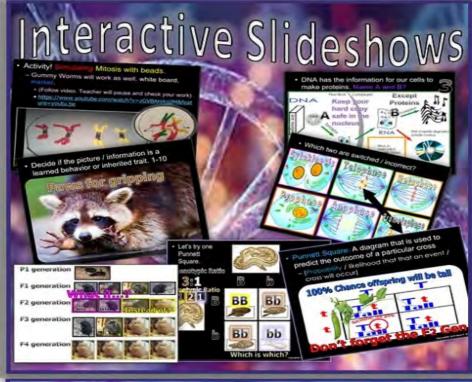
Parts 2-4, Mitosis, Cancer, Meiosis: Part 2 Cell Division: 6 Lessons of 50 minutes and 9 Page Follow Along Work Bundle, Why do we Age?, Mitosis, Time Lapse of Cells Dividing, Chromosomes, Structure of a Chromosome, DNA Wrapping, Chromatin vs. Chromosome, Steps Chromosome formation, Phases of Mitosis, PPMAT, Details with Visuals and Explanations, of Each Phase, Interphase, Prophase, Prometaphase, Metaphase, Anaphase, Telophase, Cytokinesis, Mitosis Song, Review of Phases with Visuals, Complete a Mitosis Puzzle Activity, Visual Quiz of Mitosis, Box Game Review, Explanation of Why we Age, Mitosis Simulation with Gummy Worms, Crossword Puzzle, End Unit Assessment Parts 2-4, Mitosis, Cancer, Meiosis: Part 3: Cancer, 8 Lessons of 50 Minutes and 9 Page Follow Along Work Bundle, What is Cancer?, Lifestyle Choices to help aid in the prevention of Cancer, Skin Cancer, Dangers of Skin Cancer, Ways to avoid UV Exposure, Dangers of Tanning, Abcde's of Understanding Skin Moles and Cancer, Dangers of Smoking, Starting Anti-Tobacco Campaign Project, Dissection of a Typical US Blended Cigarette, Case Study on the Filter and how they don't work, Facts about Smoking, Start of Ad Campaign Portion of Unit, Students watch Antitobacco ads and reflect on their usefulness, Visual Tour of some harmful chemical in cigarettes, Full Ingredient List, Nitrosamines, How Chemicals Impact DNA, Visual Tour of the Negative Health Impacts Smoking Can Cause, Stroke, Heart Disease, Smokers Lung vs Non-Smoker, Coating of Alveoli in Tar, Neck Breathers, laryngectomy Laryngectomy, tracheostomy, Emphysema, Chronic Bronchitis, Danger of Second Hand Smoke, Buergers Disease, Hairy Tongue / lingua villosa, Tour of the the nastiest hairy tongues out there, Dangers of Smokeless Tobacco, Mouth and Throat Cancer, Dangers of Smoking while Pregnant, Comparing Twins Study, Vaping, Dangers of Vaping, Popcorn Lung, Wet Lung, A lot Still Unknown, Case Study on JUUL, Nicotine Levels in Vaping / e-juices, Nicotine and the Adolescent Brain, Anti-Tobacco Campaign Projects, Box Game Review, Crossword Puzzle, End Unit Assessment

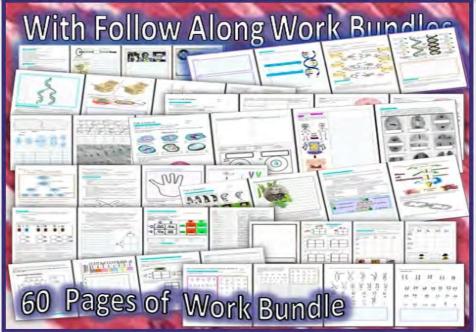
Parts 2-4, Mitosis, Cancer, Meiosis Part 4 Meiosis, 4 Lessons of 50 minutes and 12 Page Follow Along Work Bundle, Somatic Cells vs. Gametes, Haploid vs Diploid, The Reproductive System, Ovum, Male Gamete, Step by Step Drawing of Male Gamete, Flagella, Male Gamete Motility, Step by Step Drawing of Ovum, Zygote, Fertilization, Phases of Meiosis, Two Cell Divisions, Synapsis, Homologous Recombination, Meiosis Puzzle Challenge, Independent Orientation, Reduction Division, Genes, Mendel's Law of Segregation, Important Events in Meiosis Review, Mendel's Laws of Heredity, Meiosis Simulation with Gummy Worms as Chromosomes Activity, Box Game Review, Connection of Meiosis to Genetics and Evolution, Crossword Puzzle, End Unit Assessment

Part 5: Genetics: 12 Lesson of about 50 minutes and 16 Page Follow Along Work Bundle, Introduction to Genetics with the exploration of some common phenotypes, Tasting PTC Paper, Case Study Gregor Mendel, Selective Breeding, Descent with Modification, Survival of the Fittest, Heredity / Law of Segregation, Genetic Variation, Pure Breed Offspring, Mendel's Results with Pea Plants F1, F2, Generation, Phenotypes, Genotypes, Flow of Information DNA to RNA to Gene Expression, Fertilization, Asexual Reproduction, Genes and Alleles, Polygenic Traits, Dominant and Recessive Alleles, Vocabulary Review, Mendel's Laws of Heredity, Biologist Nettie Stevens Case Study, Punnett Squares, Monohybrid Crosses, How to complete a Punnett Square, Probability, Homozygous and Heterozygous, Built-in Quiz, Designing Your Child Coin Flip / Learning Terms Activity, More Practice with Punnett Squares, Dihybrid Crosses, Why Inbreeding can lead to mutations, Triple Crosses with Gecko Punnett Square, Complete Dominance, Incomplete Dominance, Pedigree Chart, Autosomal Trait vs. Sex linked trait, Five Fingers of Evolution, Box Game Review, Crossword, End Unit Assessment

Part 6: DNA and Genetics Unit: 6 Lessons of 50 minutes and 11 Page Follow Along Work Bundle, Karyotype, X and Y Chromosome, Human Karyotype vs Chimpanzee, Identifying Abnormalities in Karyotypes and their corresponding Disorder, Various Syndromes associated with Genetic Disorders, Sex Linked Disorders, Genetic Disorders with Descriptions, Virtual Lab Karyotype, Genetic Disorder Research Project, Students Partner up and complete research about a Genetic Disorder, Circle Discussion about Genetic Disorders, Bio-Ethics, Some Topics in the Biosciences, Sinking Ship Ethical Dilemma Activity, Genetic Engineering, GMO's, Difference b/t USDA Organics and Non-GMO Verified, Stem Cells, Types of Stem Cells, Embryonic Stem Cells and Stances, Cloning, Different Types of Cloning, Understanding the Differences, Applications of Cloning, Negatives of Cloning, Synthetic Life, Designer Babies, Box Game Review, Crossword Puzzle, Optional Movie with Worksheet Extension









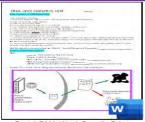
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Additional and Printables



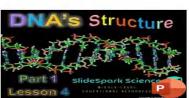
art 1 DNA Work Bundle Answers

















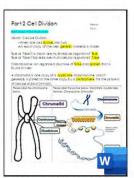


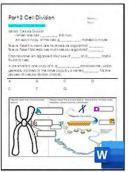
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arts 2-4, Mitosis, Cancer, Meiosis

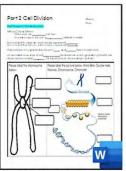


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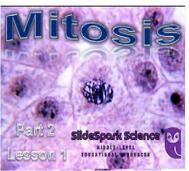


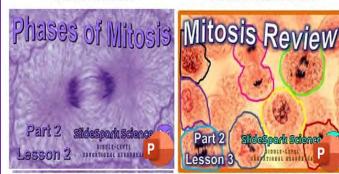


Part 2 Cell Dision Work Bundle Digital

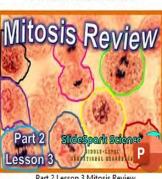


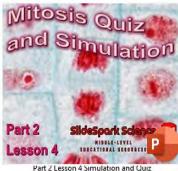
Part 2 Cell Dision Work Bundle Print





Part 2 Lesson 2 Phases Mitosis







Parts 2 Lesson 5 Review Game



Parts 2 Lesson 6 Answers Review Game

Part 3: Cancer, 8 Lessons of 50 Minutes and 9 Page Follow Along Work Bundle, What is Cancer?, Lifestyle Choices to help aid in the prevention of Cancer, Skin Cancer, Dangers of Skin Cancer, Ways to avoid UV Exposure, Dangers of Tanning, Abode's of Understanding Skin Moles and Cancer, Dangers of Smoking, Starting Anti-Tobacco Campaign Project, Dissection of a Typical US Blended Cigarette, Case Study on the Filter and how they don't work, Facts about Smoking, Start of Ad Campaign Portion of Unit, Students watch Anti-tobacco ads and reflect on their usefulness, Visual Tour of some harmful chemical in cigarettes, Full Ingredient List, Nitrosamines, How Chemicals Impact DNA, Visual Tour of the Negative Health Impacts Smoking Can Cause, Stroke, Heart Disease, Smokers Lung vs Non-Smoker, Coating of Alveoli in Tar, Neck Breathers, laryngectomy Laryngectomy, tracheostomy, Emphysema, Chronic Bronchitis, Danger of Second Hand Smoke, Berger's Disease, Hairy Tongue / Ilingua villosa, Tour of the the nastiest hairy tongues out there, Dangers of Smokeless Tobacco, Mouth and Throat Cancer, Dangers of Smoking while Pregnant, Comparing Twins Study, Vaping, Dangers of Vaping, Popcorn Lung, Wet Lung, A lot Still Unknown, Case Study on JUUL, Nicotine Levels in Vaping / e-juices, Nicotine and the Adolescent Brain, Anti-Tobacco Campaign Projects, Box Game Review, Crossword Puzzle, End Unit Assessment



Part 3 Lesson 1 Cancer and Skin Cancer



Part 3 Lesson 5 Smoking Cont III



Part 3 Lesson 9 Review Game Answers





Part 3 Lesson 6 Vaping Dangers



Part 3 Work Bundle Answers



Part 3 Lesson 3 Smoking Cont I



Part 3 Lesson 7 Campaign and Wrap Up



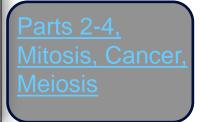
Part 3 Work Bundle Print



Part 3 Lesson 4 Smoking Cont II

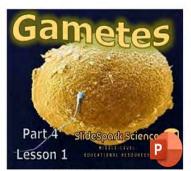


Part 3 Lesson 8 Review Game

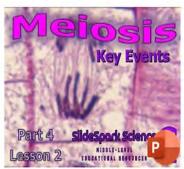


Part 4 Meiosis, 4 Lessons of 50 minutes and 12 Page Follow Along Work Bundle, Somatic Cells vs. Gametes, Haploid vs Diploid, The Reproductive System, Ovum, Male Gamete, Step by Step Drawing of Male Gamete, Flagella, Male Gamete Motility, Step by Step Drawing of Ovum, Zygote, Fertilization, Phases of Meiosis, Two Cell Divisions, Synapsis, Homologous Recombination, Meiosis Puzzle Challenge, Independent Orientation, Reduction Division, Genes, Mendel's Law of Segregation, Important Events in Meiosis Review, Mendel's Laws of Heredity, Meiosis Simulation with Gummy Worms as Chromosomes Activity, Box Game Review, Connection of Meiosis to Genetics and Evolution, Crossword Puzzle, End Unit Assessment

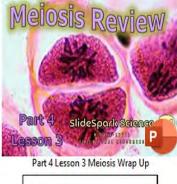
Parts 2-4, Mitosis, Cancer, Meiosis



Part 4 Lesson 1 Sex Cells



Part 4 Lesson 2 Meiosis

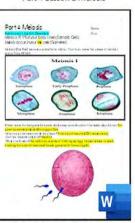




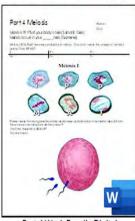
Part 4 Lesson 4 Meiosis Review Game



Part 4 Lesson 5 Answer Review Game



Part 4 Work Bundle Answers



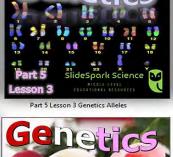
Part 4 Work Bundle Digital



Part 4 Work Bundle Print

Part 5: Genetics: 12 Lesson of about 50 minutes and 16 Page Follow Along Work Bundle, Introduction to Genetics with the exploration of some common phenotypes, Tasting PTC Paper, Case Study Gregor Mendel, Selective Breeding, Descent with Modification, Survival of the Fittest, Heredity / Law of Segregation, Genetic Variation, Pure Breed Offspring, Mendel's Results with Pea Plants F1, F2, Generation, Phenotypes, Genotypes, Flow of Information DNA to RNA to Gene Expression, Fertilization, Asexual Reproduction, Genes and Alleles, Polygenic Traits, Dominant and Recessive Alleles, Vocabulary Review, Mendel's Laws of Heredity, Biologist Nettie Stevens Case Study, Punnett Squares, Monohybrid Crosses, How to complete a Punnett Square, Probability, Homozygous and Heterozygous, Built-in Quiz, Designing Your Child Coin Flip / Learning Terms Activity, More Practice with Punnett Squares, Dihybrid Crosses, Why Inbreeding can lead to mutations, Triple Crosses with Gecko Punnett Square, Complete Dominance, Incomplete Dominance, Codominance, Pedigree Chart, Autosomal Trait vs. Sex linked trait, Five Fingers of Evolution, Box Game Review, Crossword, End Unit Assessment

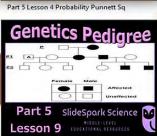




















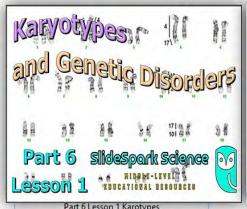
Part 5 Lesson 6 Dihybrid Cross

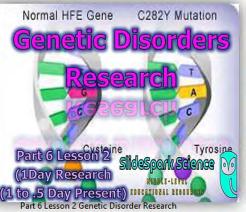
esson 6

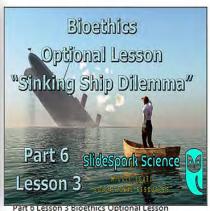


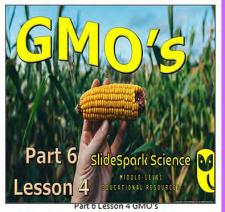
Part 6: DNA and Genetics Unit 6 Lessons of 50 minutes and 11 Page Follow Along Work Bundle, Karyotype, X and Y Chromosome, Human Karyotype vs Chimpanzee, Identifying Abnormalities in Karyotypes and their corresponding Disorder, Various Syndromes associated with Genetic Disorders, Sex Linked Disorders, Genetic Disorders with Descriptions, Virtual Lab Karyotype, Genetic Disorder Research Project, Students Partner up and complete research about a Genetic Disorder, Circle Discussion about Genetic Disorders, Bio-Ethics, Some Topics in the Biosciences, Sinking Ship Ethical Dilemma Activity, Genetic Engineering, GMO's, Difference b/t USDA Organics and Non-GMO Verified, Stem Cells, Types of Stem Cells, Embryonic Stem Cells and Stances, Cloning, Different Types of Cloning, Understanding the Differences, Applications of Cloning, Negatives of Cloning, Synthetic Life, Designer Babies, Box Game Review, Crossword Puzzle, Optional Movie with Worksheet Extension

Part 6: DNA and Genetics Unit

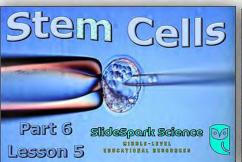








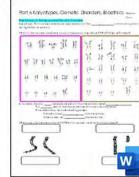
Part 6 Lesson 1 Karotypes



Part 6 slidespark science esson 6



Part 6 Work Bundle Answers



Part 6 Work Bundle Print

Part 6 Lesson 5 Stem Cells Part 6 Lesson 6 Cloning and Wrap Up

Curriculum Guide

Number of Lessons in each unit (50 min, daily lessons) and difficult rating scale / intended grade level.





=Easier, | More difficult,



=Most difficult

Earth Science Units	Daily Lessons	Intended Grade	
Geology Topics Unit	60 Lessons	6-8 medium difficulty	MORE
Weather and Climate Unit	40 Lessons	6-8 medium difficulty	MORE DIFFICULT
Astronomy Unit	60 Lessons	6-8 medium difficulty	MORE
Weathering, Soil Sciences	28 Lessons	5-7 easier	EASIEST
Rivers and Water Quality	25 Lessons	5-7 easier	EASIEST
Water Molecule Unit	20 Lessons	5-7 easier	EASIEST

Earth Science Curriculum

Life Science Units	Daily Lessons	Intended Grade	
Ecology Feeding Levels Unit	13 Lessons	5-6 easier	EASIEST
Ecology Interactions Unit	30 Lessons	5-6 easier	EASIEST
Ecology Abiotic Factors Unit	24 Lessons	5-6 easier	EASIEST
Botany Unit	50 Lessons	5-7 easier	EASIEST
Evolution and Natural Selection	40 Lessons	5-7 easier	EASIEST
Taxonomy and Classification	50 Lessons	6-8 medium difficulty	MORE
Infectious Diseases Unit	30 Lessons	7-9 more difficult	MORE
DNA and Genetics Unit	42 Lessons	8-10 most difficult	Most Difficult
Human Body Systems Unit	85 Lessons	6-8 medium difficulty	MORE
Cell Biology Unit	30 Lessons	8-10 most difficult	Most Difficult

Life Science Curriculum

Physical Science	Daily Lessons	Intended Grade	
Laws of Motion and Machines Unit	33 Lessons	8-10 most difficult	Most Difficult
Matter Energy and the Environment	58 Lessons	7-10 medium difficulty	MORE
Atoms and Periodic Table Unit	44 Lessons	8-10 most difficult	Most Difficult
Science Skills Unit	30 Lessons	5-7 medium difficulty	MORE

Physical Science Curriculum



Entire SlideSpark Science Curriculum

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Sincerely,

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MIDDLE-LEVEL EDUCATIONAL RESOURCES



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