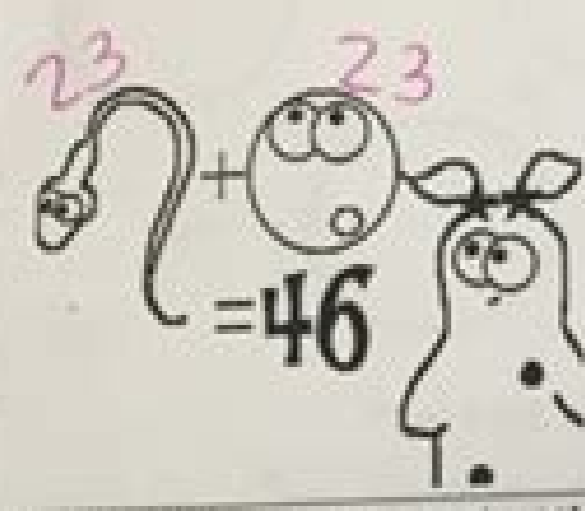


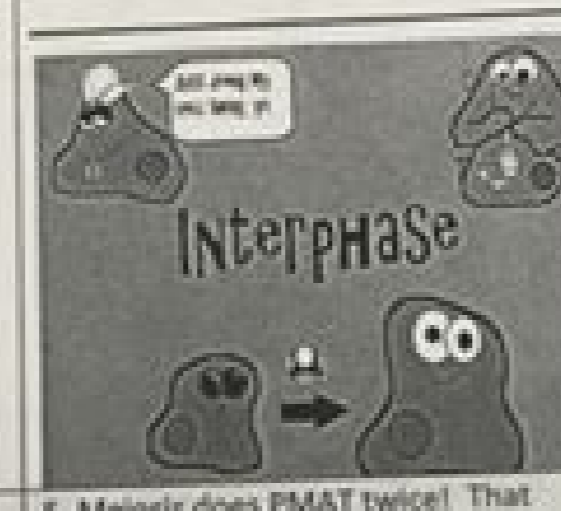
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Amoeba Sisters Video Recap of Meiosis: The Great Divide

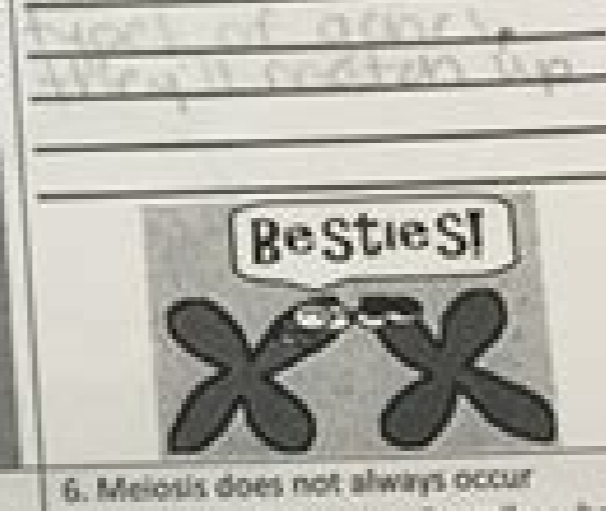
1. The purpose of meiosis is to make gametes, also known as sperm and egg cells. In humans, your body cells have 46 chromosomes. How many chromosomes are in a sperm or egg cell if, when they come together to form a fertilized zygote, there are 46 chromosomes? Write the correct number of chromosomes next to the sperm and egg.



2. Interphase must occur once before meiosis can happen. (Same thing for mitosis). What would happen if interphase didn't occur first?

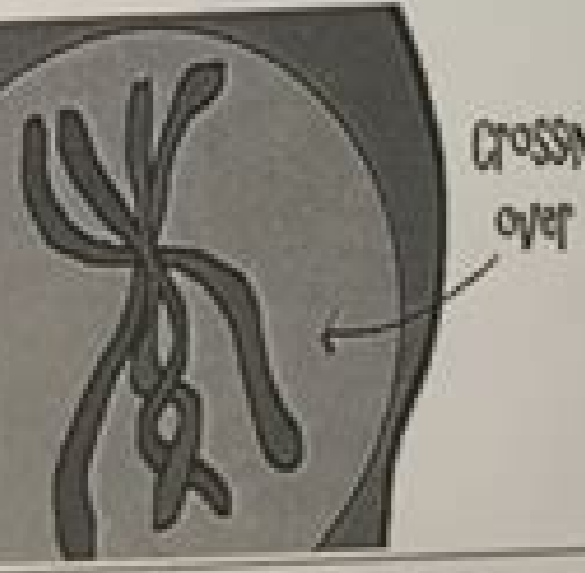


3. Remember that a cell that begins meiosis has 23 chromosomes inherited from mother (one is shown in red on the right in cartoon) and 23 chromosomes inherited from father (one is shown in blue on the left in cartoon). In the process of meiosis, chromosomes begin to match up in homologous pairs. How would you know if two chromosomes were homologous?



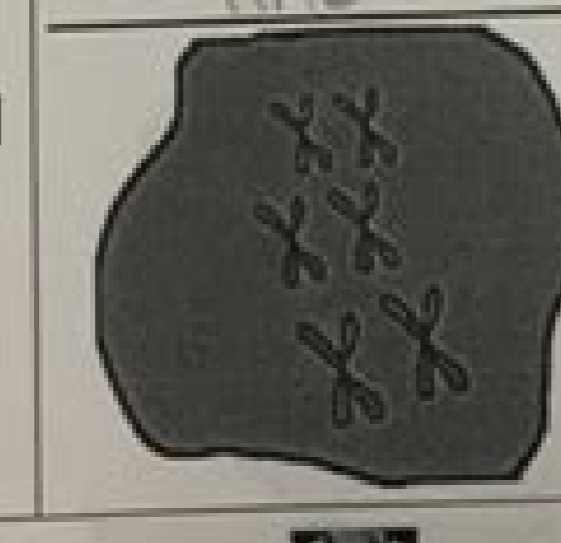
4. Crossing over is a very important event in Prophase I of meiosis! What happens during crossing over and what is the significance?

chromosomes transfer genetic information.
Significance: contribute to genetic differences in siblings



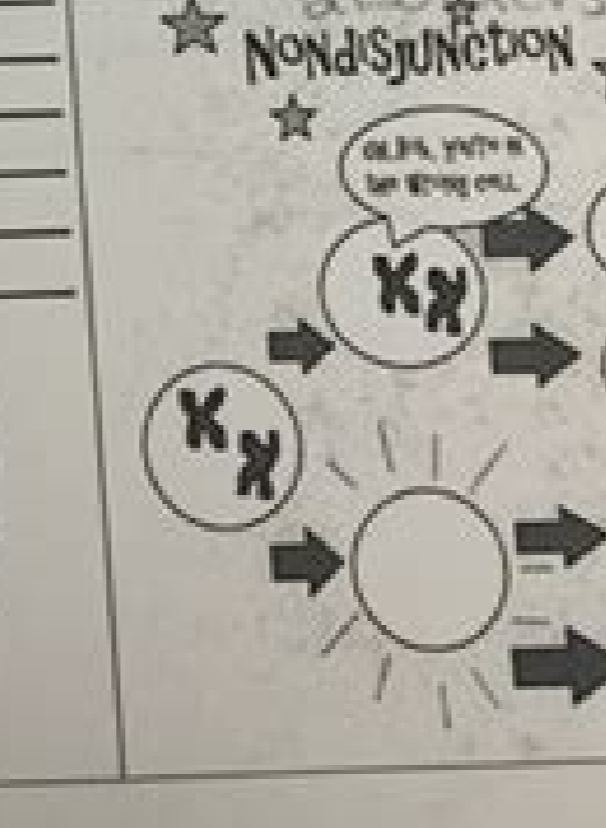
5. Meiosis does PMAT twice! That means there is a prophase 1 and a prophase 2. There is a metaphase 1 and a metaphase 2. Etc... If the cartoon below has chromosomes in the middle of the cell, how would you know whether it was in metaphase 1 or metaphase 2?

Metaphase 1 because you're not in a single line



6. Meiosis does not always occur without any difficulties. Describe what occurs during nondisjunction and the effect on the resulting cells.

cell receives too much or too little genetic info. leads to genetic disorders



12

1. Mitosis vs. Meiosis Venn Diagram: Place each of the items listed below in the appropriate portion of the diagram. Add 3 items.

| | | | |
|------------------------------|-------------------------------------|---------------------------------------|---------------------------------|
| chromosome genetic variation | prophase | cell to four cells | repairs DNA or worse cell fates |
| 2 cells | DNA replication occurs in metaphase | 2 cells produced | genetic recombination |
| 2 daughter cells | metaphase cells | metaphase prophase 1/ metaphase cells | |
| genetic cells | 2 divisions | four cells | |

Mitosis vs. Meiosis Venn Diagram

2. Mitosis vs. Meiosis Explaining Differences: Explain what happens in each of the following processes in Meiosis that is different from Mitosis and why the difference is important.

Prophase I (in Meiosis I):

Metaphase I and Anaphase I (in Meiosis I):

Meiosis II:

3. Mitosis and Meiosis Deans Definitions: On the back, a) define each of the words below using only pictures. b) Label each of your drawings with the appropriate vocabulary word, and c) note whether the word relates to Mitosis, Meiosis, or both.

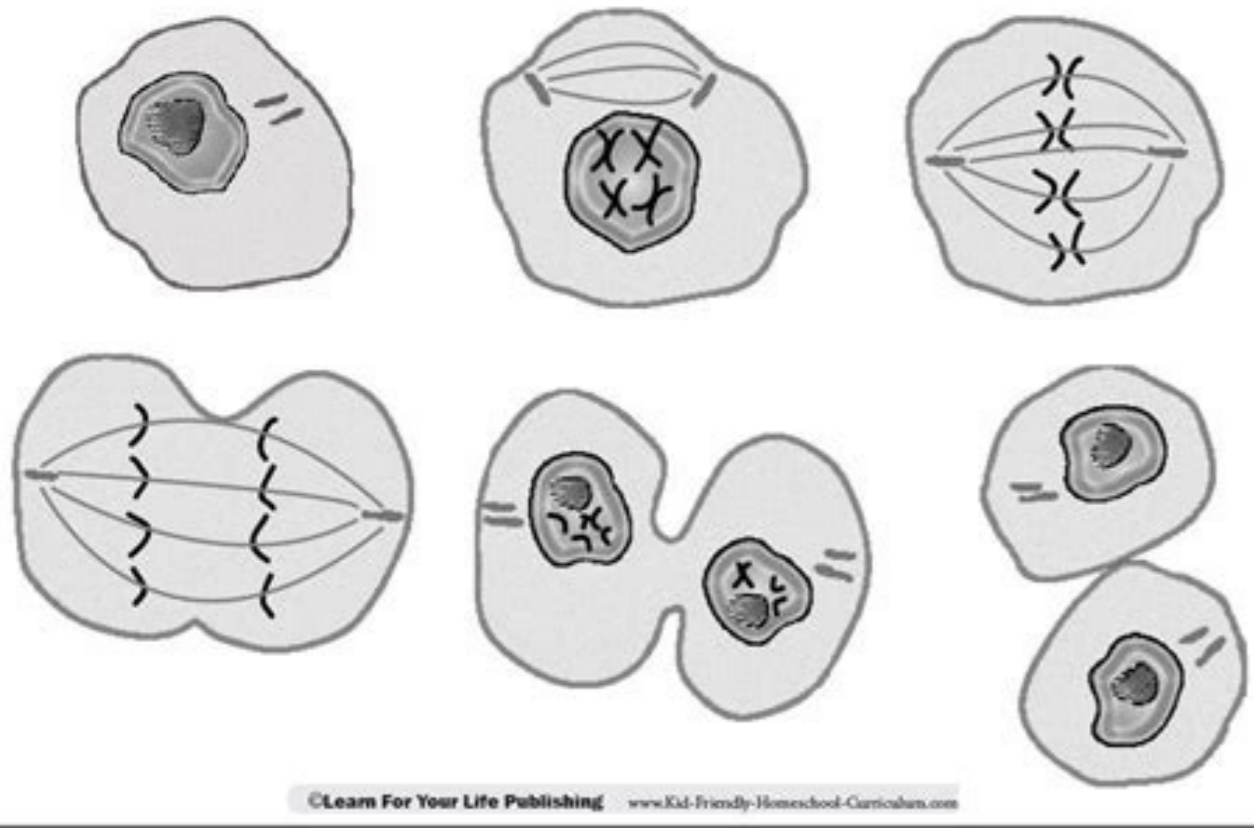
Chromosomes, Centrioles, Centrioles, Chromatids, DNA, Homologous Chromosomes, Interphase, Prophase, Anaphase, Metaphase, Telophase, Diploid, Haploid, Tetrad, X, Y, Crossing Over, Gametes, Somatic Cell

Name KEY Date _____

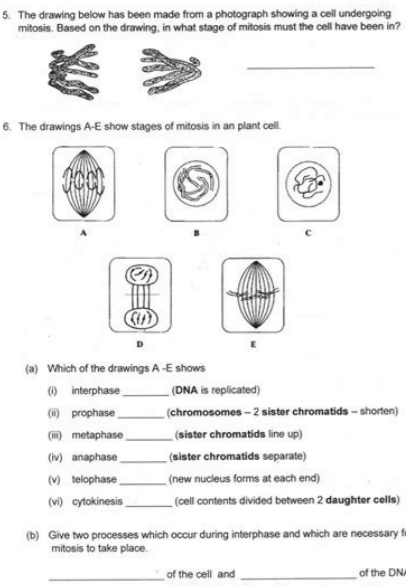
Mitosis and Meiosis Study Guide

- Genes are short segments of DNA and are located in the _____ of a cell.
-chromosomes
- What is the process by which the number of chromosomes is reduced by half to form sex cells?
-meiosis
- Fertilization is an important step in animal reproduction. What happens during fertilization?
-The sperm and egg cell join to create a new living thing.
- The process by which a cell creates an exact copy of itself, allowing an organism to grow is known as:
-mitosis
- What is mitosis?
-how cells reproduce
- What are genes?
-Segments of DNA that code for physical characteristics.
- In the offspring pictured to the right, what percentage of genes comes from the female parent?
-50% (half)
- How does your body grow as you get older?
-Your cells divide, producing new cells.
- When sex cells combine to produce offspring, how many chromosomes will each sex cell contribute?
-Half the number of chromosomes in the body cells.
- In mitosis, how does the number of chromosomes in a daughter cell compare to the number of chromosomes in a parent cell?
-The daughter cell has the exact same number of chromosomes as the parent cell.
- How does a sperm or egg cell differ from all the other cells in your body?
-Sperm and egg cells contain only half the number of chromosomes as other cells.
- In frogs there are 26 chromosomes in a fertilized egg. How many chromosomes are in the egg and sperm cells before fertilization?
-13 chromosomes in the egg cell and 13 chromosomes in the sperm cell.
- If an organism reproduces asexually, as in budding, how will the offspring compare genetically to the parent?
-The offspring will be genetically identical to the parent.
- How do mitosis and meiosis differ with regards to daughter cells?
-Mitosis produces 2 identical daughter cells, while meiosis produces 4 genetically different cells.
- What type of reproduction results in offspring that are genetically identical to the parent?
-asexual reproduction (budding, fragmentation, binary fission)

Compare the phases of mitosis and list them in the correct order.



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Comparing mitosis and meiosis worksheet answer key biology i8f765. Mitosis worksheet answer key biology.

1. We've been working on a book! We're super excited about it, and we'll share more info about it soon! We're still creating our regular content videos, and we are focusing on body system topics. After completing several, we try to create resources to go along with them (like our Unlabeled Series 2nd series topics). In the meantime, we continue to release biology themed Shorts! These are videos that are less than 60 seconds. Amoeba Sisters Shorts Playlist Click the above buttons to see these dubbed channels! If you subscribe to them, you can be notified as we continue to release! We also continue to add more translated subtitles in all languages from our community! Want to learn more or help us? More about that here. Regarding the free recaps we have on this page: if you don't want to individually download the free recaps from this page, we have a view-only (which allows you to download) dropbox folder of the 45 free PDF handouts [as of August 2021] that come from this page!! Important Things to Know About This Folder: 1. This dropbox folder contains our free recap handouts. It won't contain items that we sell on TpT such as our select recap handouts, annotated video script templates, or our Unlabeled Series. Those items are linked on this page to TpT to help support our work. 2. This dropbox folder is a view-only folder which will allow you to download the PDFs that are already listed individually on this page. If you want your students to write on PDFs, please visit here. 3. The first PDF in the folder reminds about terms of use AND addresses some of the main questions we get regarding our free handouts. 4. You can still scroll down on this page to see each alphabetized topic where we have more items such as our comics, GIFs, and our TpT resources for each topic on this page. If you've never used our resources before, we highly recommend scrolling down on this page by topic first as the folder will be overwhelming otherwise. 5. Most of our free handouts (44 of them) have official keys that we offer on TpT to help support our work. We offer them individually or in one mega key bundle. Our resources are a tool- and like any tool- effectiveness is based greatly on how it is used. Please see our "suggested use" information below for some helpful tips! Annotated Video Script TEMPLATES What are the recap handouts? FREE and select recap handouts use video cartoons (drawn by Petunia) to help students connect to the content after viewing one of our short videos. They feature questions that can be used as formative assessments to quickly determine what may need to be focused on in class. Many questions ask students to put concepts in their own words (and occasionally, drawings). All recap handouts are in a grid format. Suggested Recap Handout Use Ideas: We highly encourage our handouts to be used during class time (whether in-person class or virtual class). When they're used as quick formative checks with a few grid boxes a time during actual class time, you are (1) able to ensure that the responses you receive are from the student that responded (2) you can assist students for that just-in-time assistance they need, and (3) you can adjust teaching due to reading responses. If handouts are assigned outside of in-person/virtual class time, you can lose some of those above points. We find the handouts are useful for discussion starters and exit tickets during class-time. If you need students to write on these handouts digitally (as they are PDFs), here are some suggestions. If you choose to print these, they all print front-> back. Where do I find the recap handouts? The FREE student recap handouts are downloadable on this page. You will need to scroll down about a third of the way down on this page underneath the purple "terms of use" box to see where the topics (alphabetical listing) start. Click a topic to expand. If the topic offers a FREE student recap handout, you will see a button that says "Recap- Amoeba Sisters PDF." All of our FREE resources are hosted on this page; we like to avoid double posting our free items to other locations. Note: Select recap handouts are under the "TpT" column for certain topics on this page -or see all select recap handouts here. Select recaps are different from the FREE recaps only because they include their own answer key and tend to focus on a more specialized topic. Annotated Video Script TEMPLATES About and Suggested Use: Our annotated video script templates contain an informal version of our video script with slight improvements to define sentences and remove filler words to help with annotating. They have an annotation key asking students to (1) highlight parts of the transcript that they already knew (which can be built upon), (2) highlight key information that is new to them, (3) come up with their own questions, and (4) underline vocabulary. The template has a spacious right margin for students to sketch concepts that are memorable or relevant to them. It is important to note that these templates are not the same thing as the video captions that play in real time (available for all of our videos in YouTube) as they are not to be completed while the video is playing unless using the pause feature [the video will suggest when to pause] is used. Then they can be worked on after the video is done. These make great end of class activities that can then be reviewed together the next class day as a refresher. The review companion is especially lengthy as it reviews many videos, so this would be over a period of multiple days. Where do I find them? We only have 3 currently, because these are only created when there is a video that specifically uses a pause feature as mentioned above. You will find one of them under the topic category "Codon Chart" and the other two under the topic "Review." Our handouts are designed for classroom use, and you can find our terms of use here! Please note: terms of use prohibit publicly posting answer keys made from our handout content as this is a modification of our published content (and a disservice to other teachers and students using them). We do offer official Amoeba Sisters answer keys (linked on this website to Teachers Pay Teachers- TpT) which also have these same terms. We allow our images and GIFs to be shared on presentations and social media provided they are not edited and that they are not used for financial gain (i.e. our images or GIFs can't be in/on an item that you sell). Learn more about our terms of use here. Resources on this page are listed by topic in alphabetical order under the purple terms of use box--scroll down just a little bit more. Would you prefer to search by suggested sequence? Wondering which topic name to search for? Check out our Playlist page! We do have a lot of creating going on! If you're looking for the resources that go with each video that we have, we hope #1 and #2 below help. 1. We have a biology playlist of 80 bundles, which are discounted from buying them individually. Answer keys offer convenience, and they also can be useful if you are new to the content. As mentioned in product descriptions, please don't purchase a key without first making sure you have the free accompanying handout from the handout page that it goes to it (and that you have determined that it's an ideal fit for your classroom). We offer a Google Doc that shows the videos in order from the playlist and then indicates where to look on this handout page (which has an alphabetical listing) to find the resources associated with each video. Most of our videos have a resource Google Doc showing Where Each Associated Resource is Found: you're going through the resources from the Google Doc above, you might have questions about these different resources, and we have some more detail below. What we offer for FREE: Some of the resources are FREE student recap handouts that you can download and use for all of your students that you will find below on this page. (Please see our terms of use which outline their use as they can't be sold and answer keys made using them cannot be publicly available online, as this is a disservice to both teachers and students.) Our handouts are designed in a grid format so that 1-2 of the "boxes" can be used as an exit ticket in those last 5 minutes of class. This allows one handout to serve as a series of exit tickets, and it can provide an opportunity to give feedback to students (and address misconceptions). We have GIFs and comics, which you are welcome to use in your presentations--provided that you follow the terms of use (which includes that they cannot be put in items that you sell nor can they be edited in any form). Our YouTube Shorts playlist which contains biology topic related videos that are under 60 seconds. These usually center on one individual biology topic. (And of course, our main biology videos linked in #1 above are always free) What we sell on Teachers Pay Teachers (TpT): TpT is a platform we love as it allows teacher creators to support their work! TpT is free to join. As outlined on all product pages, purchased TpT resources cannot be made available publicly online. This would make us unable to support our work. You will find answer keys that we sell, which accompany the free website student handouts, linked on our handout page. We also have many of our answer keys in bundles, which are discounted from buying them individually. Answer keys offer convenience, and they also can be useful if you are new to the content. As mentioned in product descriptions, please don't purchase a key without first making sure you have the free accompanying handout from the handout page that it goes to it (and that you have determined that it's an ideal fit for your classroom). We offer a few "select handouts" that are not free unlike our regular recap handouts. Select handouts come with their own answer keys. While they are styled just like our regular free handouts in the grid format for exit ticket use, they tend to cover more detailed/less standard topics. For example, water properties, the endosymbiotic theory, and non-Mendelian inheritance are topics that have select handouts (with accompanying keys). To complement our two mega review videos (longer videos we created), we offer two longer video companion handouts. We offer annotated video script templates for some videos. They contain an informal version of our video script with slight improvements to define sentences and remove filler words to help with annotating. They have an annotation key asking students to (1) highlight foundation parts of the transcript that they already knew (which can be built upon), (2) highlight information that is new to them, (3) come up with their own questions, and (4) underline vocabulary. In addition, the template has a spacious, blank right margin for students to sketch concepts that are memorable or relevant to them. PS. All of our Unlabeled Series topics already include an annotated video script template with them as that is an important component of the Unlabeled Series Resource. Our Unlabeled Series! The Unlabeled Series is designed to be an alternative to traditional lecture/notes and encourages student questioning, discussion, and student creation. We have 18 topics total in our 1st series that can be purchased individually or bundled together. We have started to offer body system topics for our second series: see our full Unlabeled Series listing of both the 1st series and growing 2nd series here. What is TpT? Teachers Pay Teachers (TpT) allows teacher creators to be able to financially support themselves for their work which allows us to continue our creating! TpT contains all kinds of amazing resources (in all content areas PK-12) created by many who are, or have been, in the classroom. We think it's important for students to know everyone starts as a beginner! If we redo a video, we usually will place the newer version video link on this page and then still keep a link to the old video too. Old handouts can still be used with new videos as we make sure our new videos still include the previous information. Occasionally, we'll update old video handout graphics, but we have found that seems to cause confusion so we are less likely to alter old handouts. Our videos are FREE! Subscribing to our channel is also free and would make us the HAPPIEST of amoebas! Please subscribe to our YouTube channel! 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It is very similar but with updated drawings and a few extra questions. Updated handout is below. Old handout remains available underneath the new one. UPDATED Mutations Recap by Amoeba Sisters- Amoeba Sisters PDF File Size: 469 kb File Type: pdf Download File prefer OLD handout? Click to expand. OLD Mutations Recap - Amoeba Sisters PDF File Size: 602 kb File Type: pdf Download File Check out our mutation graphics and GIFs! Answer Key to Mutations recap. Note: We have updated this to include both keys--one to the original (old) student recap and one to the new (updated) student recap. P.S. The above video is an intro to science video. Science helps develop scientific theories and laws. But we know many students have the misconception that "scientific theories turn into laws with enough evidence" or that a scientific theory is "just a theory." We have a separate video that can help with these misconceptions--scroll down under the topic "Theories." 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Select recap handouts are styled just like our regular free recap handouts, but they tend to cover more detailed/less standard topics. For example, water properties, the endosymbiotic theory, and non-Mendelian inheritance are topics that have select handouts (with accompanying keys). This supports our work! Note: We have not created a free handout on this topic, but we offer a resource for purchase on TpT. For this video, we offer our annotated video script TEMPLATE. Our template provides space for students to annotate, sketch their learning, identify vocab, and ask their own questions. Standards this can support? Visit here. Texas teachers, we list TEKS that can be supported here. P.S. Did you know we made a short video on how to read a codon chart? To find it, look under the topic on this page "Codon Charts." :) NOTE: We don't always update old handouts when we update a video, but we decided to update this handout! It is very similar but with updated drawings and a few extra questions. Updated handout is below, and just like the old handout, it focuses on two videos. The front (1st page) focuses on the DNA vs. RNA video and the back (2nd page) focuses on the protein synthesis video. UPDATED DNA vs RNA and Protein Synthesis Recap - Amoeba Sisters PDF File Size: 445 kb File Type: pdf Download File prefer old handout? Click to expand. OLD DNA vs. RNA and Protein Synthesis Recap - Amoeba Sisters PDF File Size: 647 kb File Type: pdf Download File *Note: Handout covers 2 separate videos. Front (1st page) focuses on DNA vs. RNA video & back (2nd page) focuses on protein synthesis video. Also, the old protein synthesis video still exists if preferred. Check out our protein synthesis comics and GIFs! Topic is part of our Unlabeled Series! We have 2 review videos! 1. Stroll Through the Playlist (a Biology review) video covers many general biology concepts. Standards this can support? Texas teachers, we list TEKS that can be supported here. 2. Mega Genetics Review covers how to do many different types of Punnett square problems. Standards this can support? Texas teachers, we list TEKS that can be supported here. Stroll Through the Playlist Video Companion on TpT here! This companion handout closely follows our "Stroll Through the Playlist (a Biology Review)" video. Mega Genetics Review Video Companion on TpT here! This companion handout follows our "Mega Genetics Review" video. We license some of our art for our Redbubble store, and we have our study tips poster here. Amoeba Sisters Terms of Use Reminder: Terms of use prohibit publicly posting answer keys made from our handouts. This is an editing on our copyrighted work (and a disservice to teachers and students using them). This can correlate with reviewing safety procedures prior to lab. 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While these "absolute statements" do not seem to involve edu videos on YouTube (yet), we believe the effectiveness of edu videos ALSO depends on how they are used so we made a video with some suggestions!

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