

Monday:EVO devo- finish pbs series

Nutshell- superbug

<https://www.youtube.com/watch?v=xZbcwi7SfZE&t=297s>

Finish what Darwin never knew!

Abiogenesis vs biogenesis- 2K of spontaneous generation

<https://www.youtube.com/watch?v=WNByRghR6sw>

Early Earth -caves/ extremophiles -5 min

<https://unctv.pbslearningmedia.org/resource/ess05.sci.ess.eiu.lifecondtn/caves-extreme-conditions-for-life/#.Wh8E7VWnHcs>

Early atmosphere? Cyanobacteria-2 min

<https://unctv.pbslearningmedia.org/resource/tdc02.sci.life.cell.stetteroxygen/life-before-oxygen/#.Wh8FIVWnHcs>

Three experiments that changed the world

<https://www.youtube.com/watch?v=63loOLXmzKg>

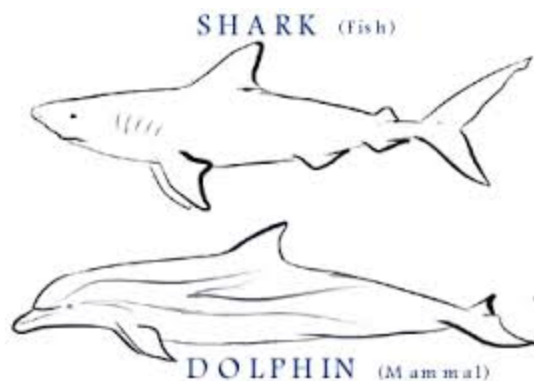
Evolution in action - salamanders- divergent or adaptive radiation

<https://www.pbs.org/wgbh/nova/video/evolution-in-action>

Rattlesnakes losing rattles

<https://www.nbc26.com/news/national/rattlesnakes-evolving-losing-their-rattles-expert-says>

Convergent evolution- bats and dolphins??

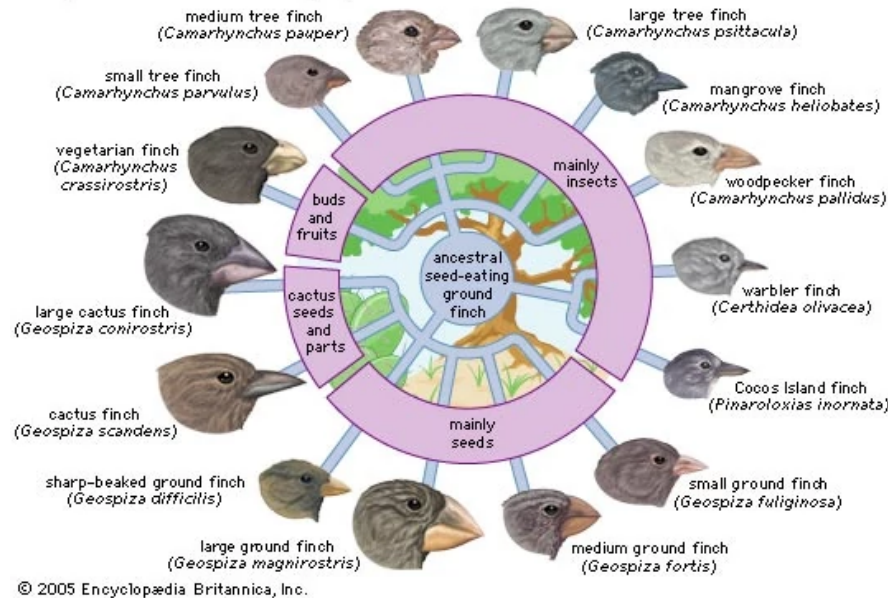


<https://www.youtube.com/watch?v=Odq7W2u2Xj8>

[http://dragonflyissuesinevolution13.wikia.com/wiki/Convergent Evolution?amp%3B_DNews_The Amazing_Connection_Between_Bats_And_Dolphins=undefined](http://dragonflyissuesinevolution13.wikia.com/wiki/Convergent_Evolution?amp%3B_DNews_The_Amazing_Connection_Between_Bats_And_Dolphins=undefined)

Adaptive radiation

Adaptive radiation in Galapagos finches



Adaptive radiation

Co- evolution- bozeman 8 min

<https://www.youtube.com/watch?v=QDVbt2qQRqs>

nutshell-Clustered regularly interspaced short palindromic repeats - Cas 9- malaria?? 7min

<https://www.youtube.com/watch?v=TnzcwTyr6cE>

Wednesday warm up:

1. What are the three types of passive transport and what would each type possibly be transporting?
2. Complete a cross between a woman heterozygous with brown hair and a man homozygous with brown hair
3. What is responsible for cutting out sections of dna (genes) during bacterial transformation?
4. Where does transcription occur and what is the end product of transcription?
5. What organelle carries out lactic acid fermentation and how much energy is produced?

<https://docs.google.com/document/d/1OwhnaAhzOi-FQSvwceXnzbStjLzXYvZh9pUepJqymqo/edit?usp=sharing>

Thursday warm up:

- 1. What illness have we developed gene therapy for?**
- 2. What is the biochemical evidence that supports the theory of evolution?**
- 3. Give examples of divergent evolution and convergent evolution.**
- 4. What factors can lead to critters becoming new species?**
- 5. What are three ways one celled organisms can be motile? (how do they move around?)**

Co- evolution- bozeman 8 min

<https://www.youtube.com/watch?v=QDVbt2qQRqs>

Cladograms

<https://www.youtube.com/watch?v=ouZ9zEkxGWg>