

## Fun Fact

- **If you unravelled all your chromosomes from all of your cells and laid out the DNA end to end, the strands would stretch from the Earth to the Moon about 8,000 times. (23)**

[https://www.youtube.com/watch?v=1vm3od\\_UmFg](https://www.youtube.com/watch?v=1vm3od_UmFg)



**Discovery of DNA Video (17 Min)**

**Extract DNA from Strawberries**

<https://www.youtube.com/watch?v=hOpu4iN5Bh4>





### DNA Replication: The Cell's Extreme Team Sport



Amoeba Sisters

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194,980



## DNA Replication

- DNA molecules being composed of complementary strands allow DNA to copy itself or replicate.
- Replication creates two identical molecules of DNA.
- DNA replication ensures that each cell will have all of the genetic information it needs to carry out its activities.

## **DNA Replication**

- DNA replication begins when the two sides of the DNA molecule unwind and separate, like a zipper unzipping.
- The molecules separate between the paired nitrogen bases on each rung.
- Next, nitrogen bases floating in the nucleus pair up with the bases on each half of the DNA molecule: A with T and C with G.

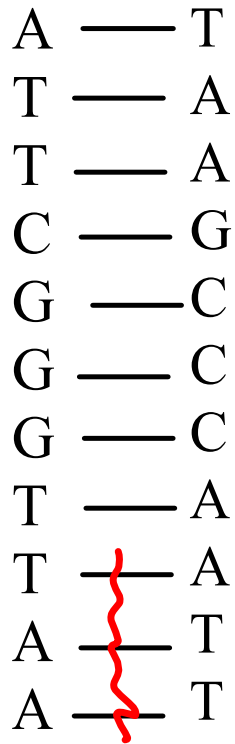
## Broken Projector day

Read Page 208 -209 Answer # 1,2,3,4,5

Read Page 212 -213 Answer # 1,2,3,4,5

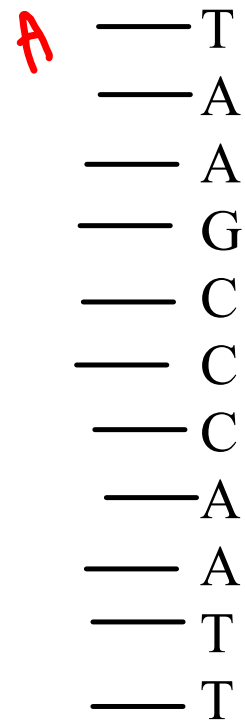
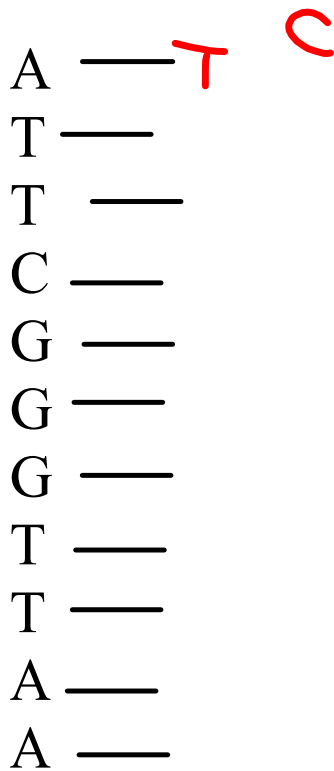
Read Page 214 -215 Answer # 1,2,3,4,5,6

Read Page 216 -218 Answer # 1,2,3,4,5,6

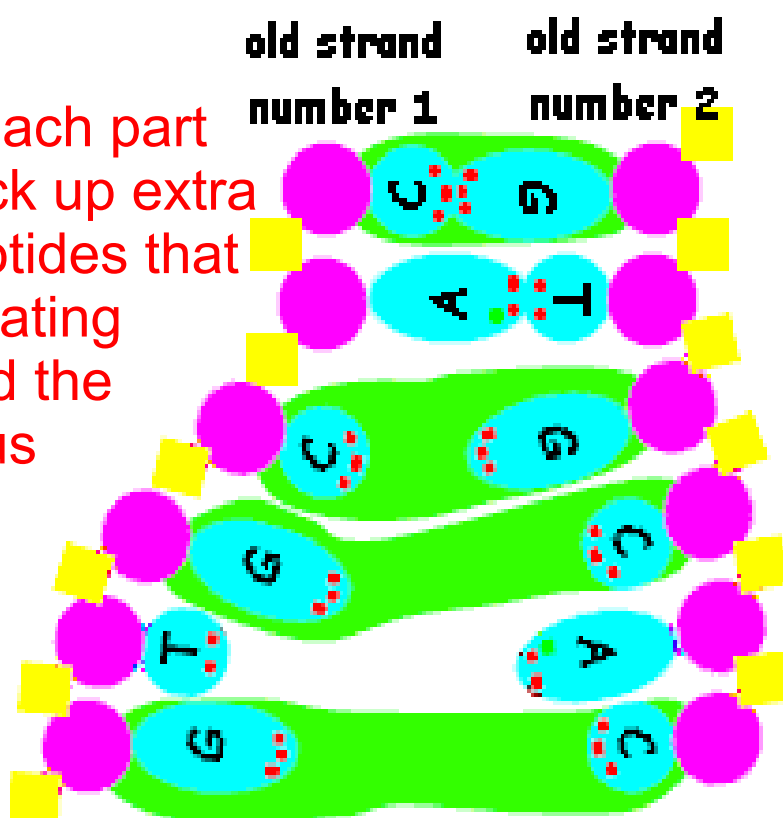


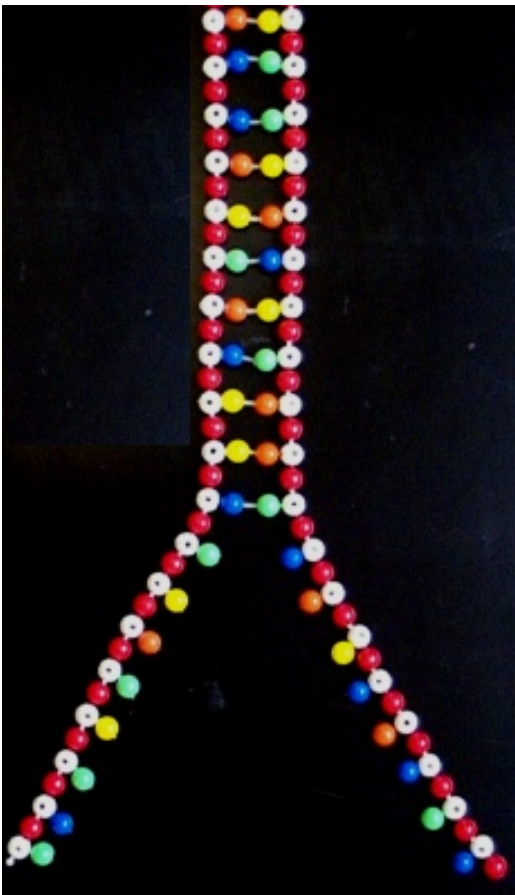
Each strand  
split apart by an enzyme

6



Now each part  
will pick up extra  
nucleotides that  
are floating  
around the  
nucleus





<http://www.youtube.com/watch?v=hfZ8o9D1tus>



<http://www.youtube.com/watch?v=cDIKrLJjRIY>

