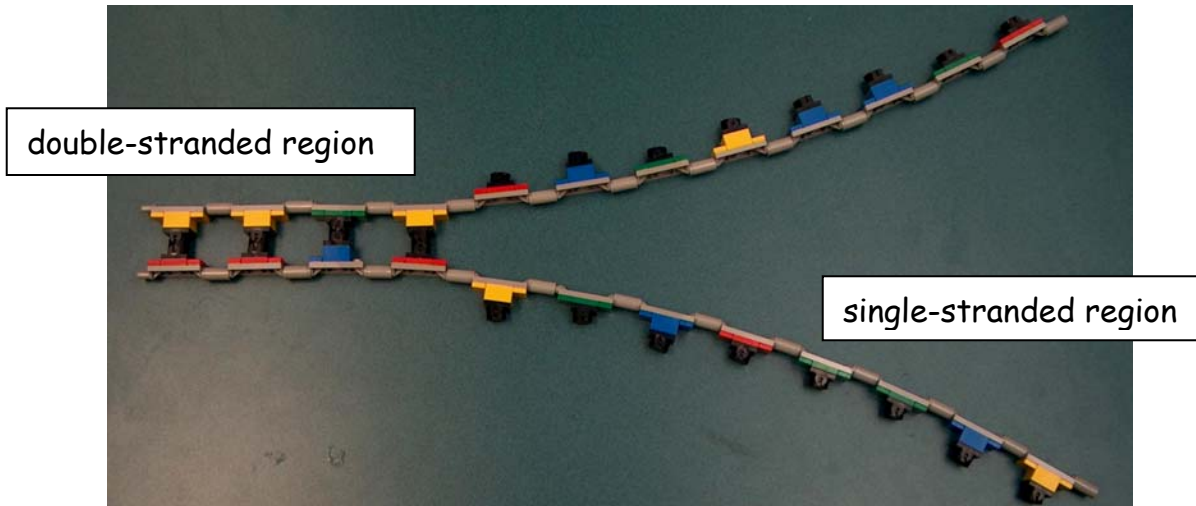


DNA replication – this process creates a complete copy of the DNA for a new cell

- Prepare the right-hand end of the molecule for replication. Un-zip (break the hydrogen bonds – simulated by separating the magnets) to make a region of single stranded DNA. You will have to turn the bases to face out from the center or they will stick back together. This technique is shown below:
- For this exercise, please UN-ZIP 8 base pairs on the right and leave four base pairs.

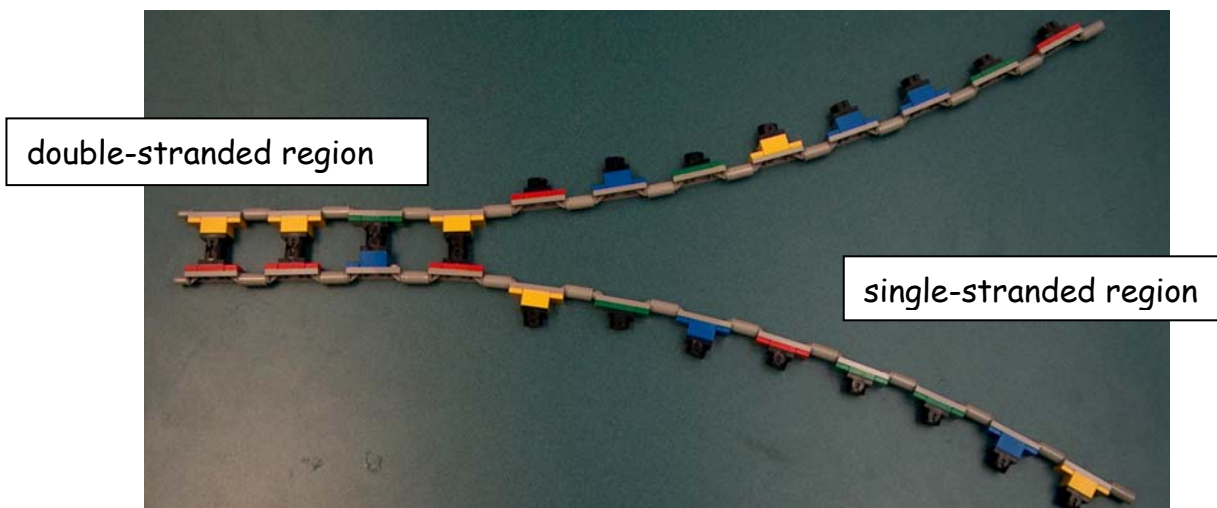


- Next, add new nucleotides to the single stranded DNA sections. Use the base pair rules that you already know.

©Kathy Vandiver 2003; revised 2007

DNA replication – this process creates a complete copy of the DNA for a new cell

- Prepare the right-hand end of the molecule for replication. Un-zip (break the hydrogen bonds – simulated by separating the magnets) to make a region of single stranded DNA. You will have to turn the bases to face out from the center or they will stick back together. This technique is shown below:
- For this exercise, please UN-ZIP 8 base pairs on the right and leave 4 base pairs.



- Next, add new nucleotides to the single stranded DNA sections. Use the base pair rules that you already know.

©Kathy Vandiver 2003; revised 2007