① Extract DNA such as:

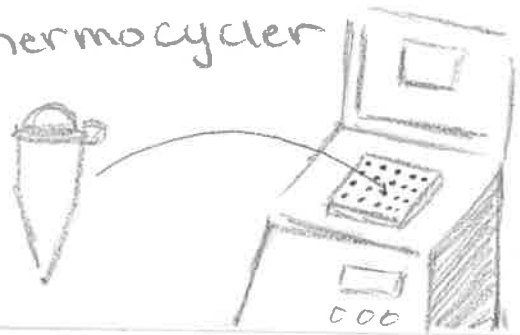
a hair folicle

Add to PCR Tube

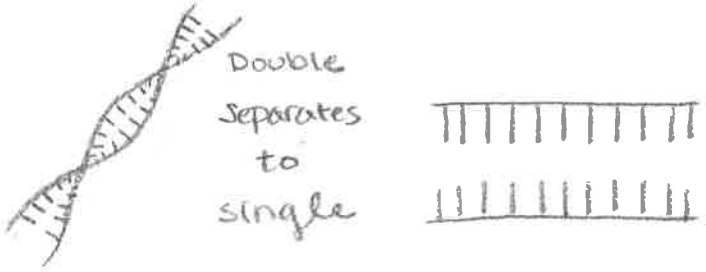
② Add to DNA:

- Primer 1
- Primer 2
- Nucleotides (A, G, C, T)
- DNA Polymerase

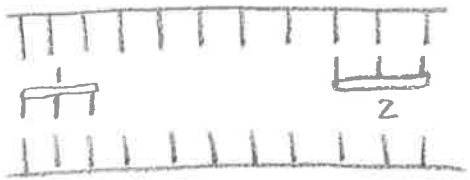
③ Put PCR Tube into Thermocycler



④ Heat to 95°C or 203°F

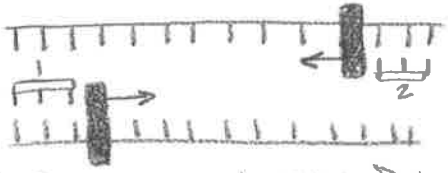


⑤ Cool down to 50°C or 122°F



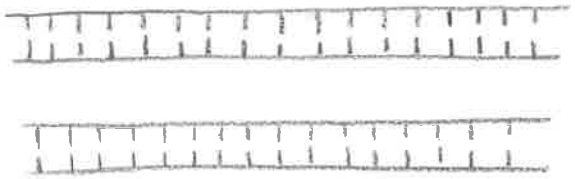
Primer 1 & 2 crowd in

⑥ Heat to 72°C or 161.6°F

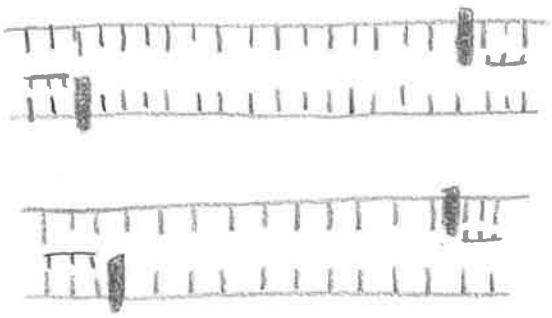


DNA Polymerase locate Primers and adds complimentary nucleotides.

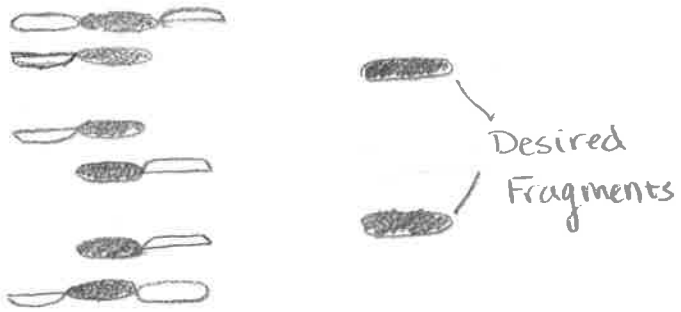
⑦ End Product:



Heats back to 95°C and Process is repeated.



⑧ By cycle 3, desired strand of DNA will be produced



⑨ After 30 cycles there are over a billion fragments with only 60 left of the long strand.

Solution is now almost purely the target sequence.