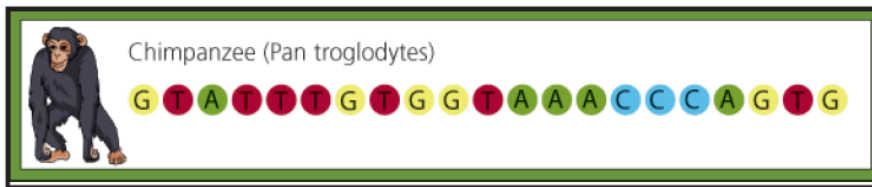


How To:

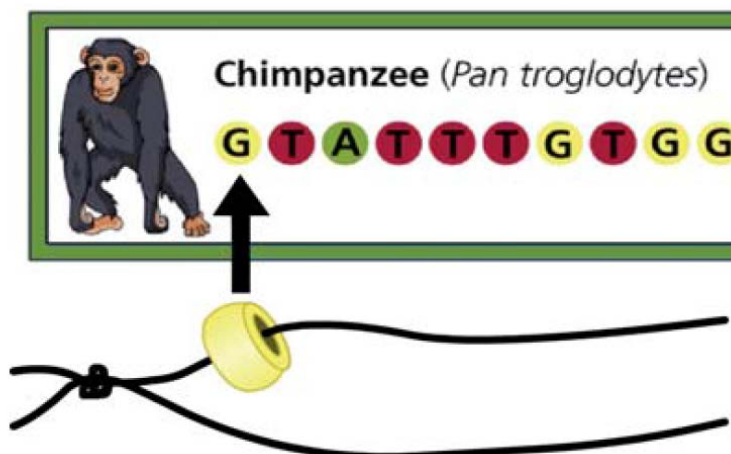
1. Go to http://www.yourgenome.org/downloads/pdf/teachers/seq/FT_sequence_bracelets.pdf (pages 3 and 4) to pick out an organism you want to make a bracelet of the genetic code of, such as a person, trout, chimpanzee or butterfly. Choose one DNA sequence to make.



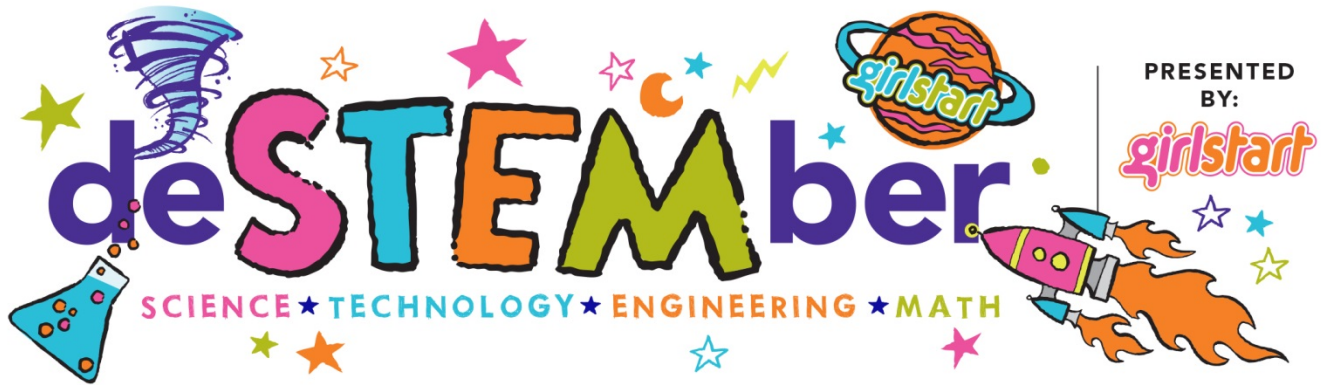
2. Find or cut two pieces of elastic each about 1' (30 cm) long. Tie a knot about 5 cm from one end of each string; then tie the two strings together at the knots.



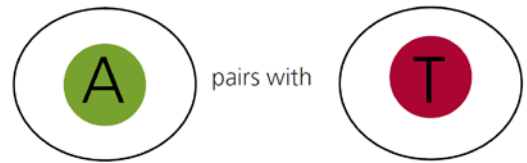
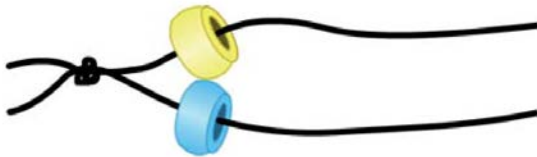
3. Look at the first letter in your sequence and find the right color bead to thread. Each bead represents one letter of your organism's genetic code.



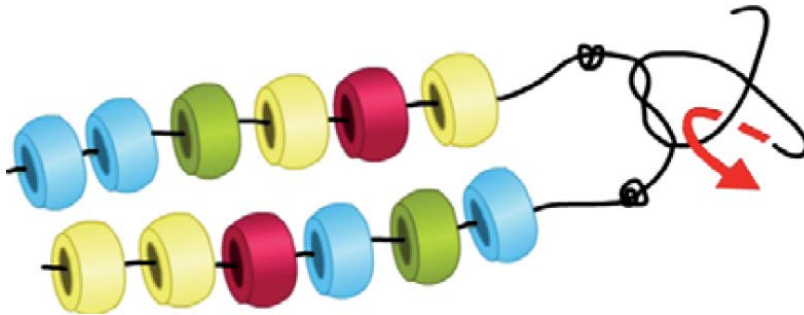
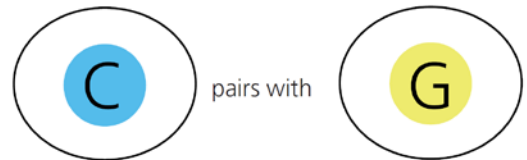
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- Thread that bead onto string 1 and thread the bead for the matching base onto string 2 (see the Pairing Rules picture to the right for guidance). Keep threading beads according to your sequence until you've finished the sequence on your card.



- Knot each string after the last bead, and then tie the two new knots together. Just like in DNA, there are four different kinds of units that make up the sequence - red, green, yellow and blue.



- Your bracelet will contain two strands of beads that match up the same way the units (or bases) in DNA do. That means if you know the sequence of one strand, you can work out the sequence of the other.
- Now tie the ends of your double-stranded sequence bracelet together and enjoy your new DNA sequence bracelet!

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