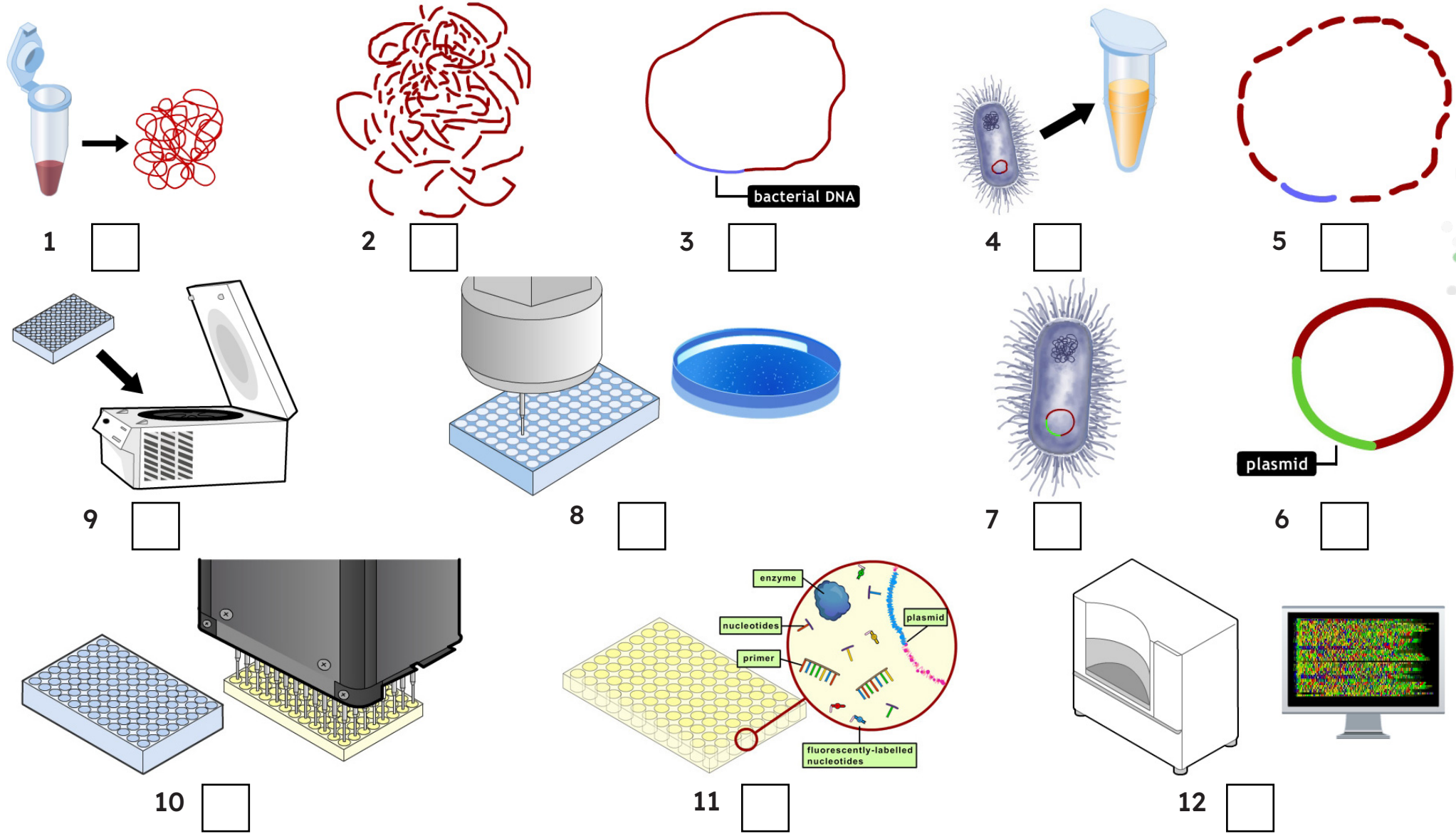
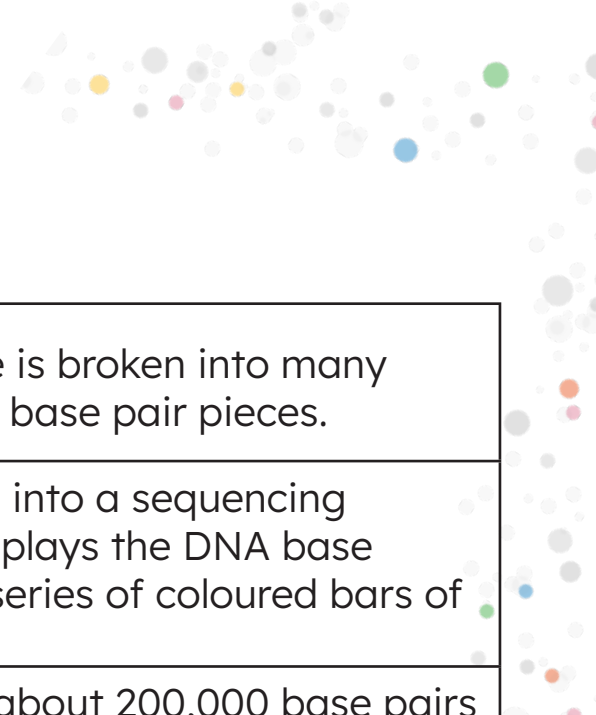


DNA to Data

Match the sequencing steps A-L (on page 2) to the corresponding boxes in the diagram below.



Match the sequencing step to the correct position on the diagram on page 1.



A	Samples are treated with detergent to burst cells and centrifuged to separate out sample DNA.	G	The DNA Sample is broken into many random 200,000 base pair pieces.
B	Recombinant DNA is inserted into bacterial cells and cultured for storage and sequencing.	H	A plate is loaded into a sequencing machine that displays the DNA base sequences as a series of coloured bars of peaks.
C	Robots pick colonies of bacteria and transfer them into individual wells.	I	DNA fragments about 200,000 base pairs long are broken into smaller pieces of about 4000 - 6000 base pairs long.
D	DNA fragments are combined with modified pieces of bacteria.	J	The sequencing mix contains a mixture of plasmid and target DNA, DNA nucleotides, fluorescently-tagged nucleotides , enzyme and primer sequences.
E	DNA is extracted from a blood sample.	K	A plasmid is inserted into bacteria that are grown on agarose plates.
F	Small fragments of DNA are packaged into bacterial plasmids.	L	DNA samples are transferred to a 96-well plate where sequencing chemicals are added.