





<b>1</b>	DNA is extracted from a blood sample. (E)	<b>7</b>	A plasmid is inserted into bacteria that are grown on agarose plates. (K)
<b>2</b>	The DNA sample is broken down into many random 200,000 base pair pieces. (G)	<b>8</b>	Robots pick colonies of bacteria and transfer them into individual wells. (C)
<b>3</b>	DNA fragments are combined with modified pieces of bacterial DNA. (D)	<b>9</b>	Samples are treated with detergent to burst cells and centrifuged to separate out sample DNA. (A)
<b>4</b>	Recombinant DNA is inserted into bacterial cells and cultured for storage and sequencing. (B)	<b>10</b>	DNA samples are transferred to a 96-well plate where sequencing chemicals are added. (L)
<b>5</b>	DNA fragments about 200,000 base pairs long are broken into smaller pieces of about 4000 - 6000 base pairs long. (I)	<b>11</b>	The sequencing mix contains a mixture of plasmid and target DNA, DNA nucleotides, fluorescently-tagged nucleotides, enzyme and primer sequences. (J)
<b>6</b>	Small fragments of DNA are packaged into bacterial plasmids. (F)	<b>12</b>	A plate loaded into a sequencing machine that displays the DNA base sequences as a series of coloured bars or peaks. (H)