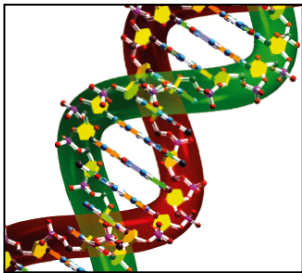


Form/Class

Name



### Worksheet Lesson 5: The discovery of DNA's structure



We can't credit just one scientist with the discovery of the structure of DNA. It was the work of many different scientists who built on the work of others before them.

In this activity you will be finding out about some of these scientists and thinking about how the structure of DNA was finally worked out.

1 Read though the work of each scientist A-F. Now, use this information to put the scientists in date order of when they made their discovery. The first one has been done for you.



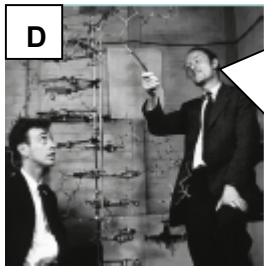
We are Avery, MacLeod and McCarty. Our work proved that DNA carries the information for inheritance but we don't know how.



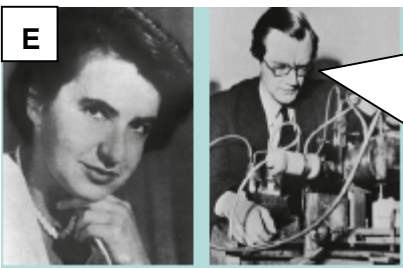
My name is Har Gobind Khorana. My research, along with other scientists, helped to show how DNA codes for characteristics. It is all to do with the order of the bases.



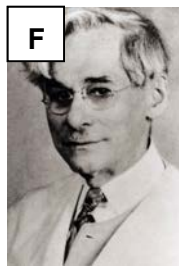
My name is Johannes Friedrich Miescher. I have discovered an acid inside the nucleus of cells which I have called 'nuclein'.



We are James Watson and Francis Crick. We used x-ray crystallography images of DNA to deduce it's structure. It is a 'double helix' and looks like a twisted ladder with the rungs being bases A, C, G and T.



We are Rosalind Franklin and Maurice Wilkins. We took pictures of the structure of DNA using X-ray crystallography.



I'm Phoebus Levene. I have renamed nuclein as nucleic acids. One type is called deoxyribonucleic acid (DNA) which contains five bases - A, C, G and T.

C                   



