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SCIENCE SKILLS 6



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**Extra
activities**

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WHO ARE THESE GREAT SCIENTISTS?

These scientists have used science to improve our lives, but science is easy for anyone to use, including you. The most important quality to have is curiosity!

Before reading the text, can you guess what each scientist did?

1

Linda B. Buck



She worked out how the receptors in our noses enable us to sense so many different smells. You should think of her the next time you smell something delicious!



Which scientist is being described? Listen and guess.

Did you know ... discovered ... ?

Their work was important because ...

2

Dorothy Crowfoot Hodgkin



She used X-rays to determine what certain molecules look like, e.g. penicillin, vitamin B12 and insulin.

3

Rosalind Franklin

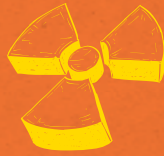


She carried out the first X-rays of genetic material, which allowed other scientists to discover the structure of DNA. Now we know that DNA is arranged in a spiral!

4

Marie Curie

She discovered and studied the radioactive elements radium and polonium. These became important in other scientific experiments and in medicine, to treat tumours.



5

Louis Pasteur

The vaccines he developed have saved many lives and protected millions of people. He found ways to make our food safer to eat.

6

Hans Christian Ørsted

He demonstrated the relationship between electricity and magnetism, using an electrical circuit to move a magnetised compass needle. This is now known as the Ørsted experiment and it's so easy you can do it at home!

**You!**

Starting with the fascinating topics you will learn about this year, how can you use your curiosity to contribute to science?

Can you name any other famous scientists?
What discoveries have they made?

1

INTERACTION

Look and discuss...

Which senses are being used? How?

1



2



Our senses allow us to appreciate and interact with our environment. We could not survive without them! Our nervous system enables us to interpret the information from the senses and react.

We use our ... to ...

... is being used to ...

3



4



1 taste; 2 sight; 3 smell; 4 sight and hearing; 5 sight and touch; 6 hearing

5



Song

See, hear, touch, smell, taste

6



I'm Super Sensational Girl! I'll help you learn how we interact with our environment and how our nervous system works.



Can you think of ways our senses help us escape danger?

DOCUMENTARY

Sensing our world

Explore

Invent a superhero and make a comic book about the nervous system. You will:

- learn how our bodies detect and respond to stimuli.
- understand the pathways of the nervous system.
- imagine life without one of your senses and develop empathy and respect for others.
- create a visual and written comic book relating to a sense and a reaction.