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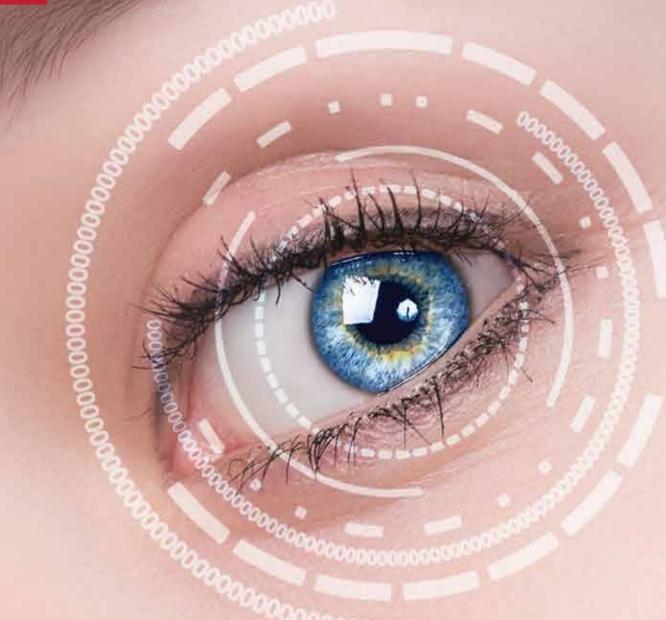
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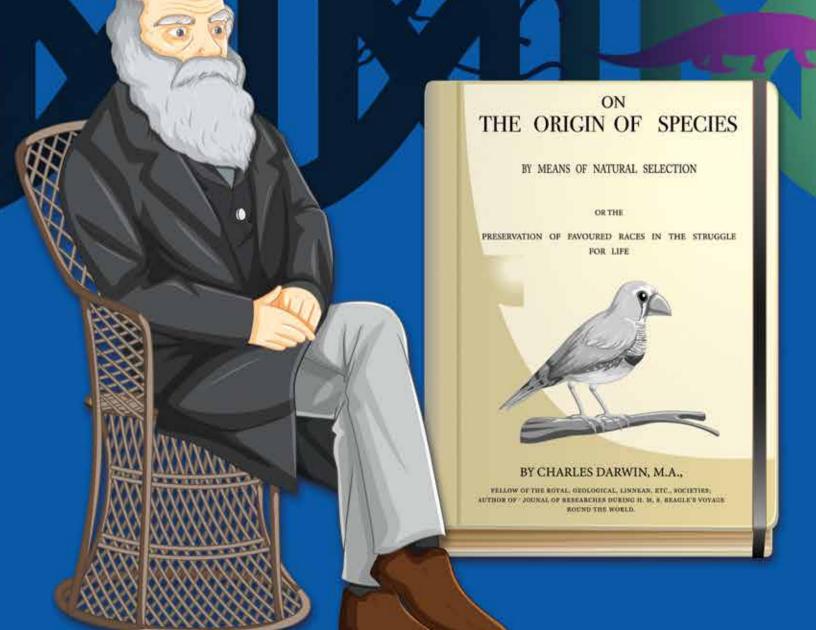
The Secret of





Charles Darwin, famous for his theory of evolution, said in his book

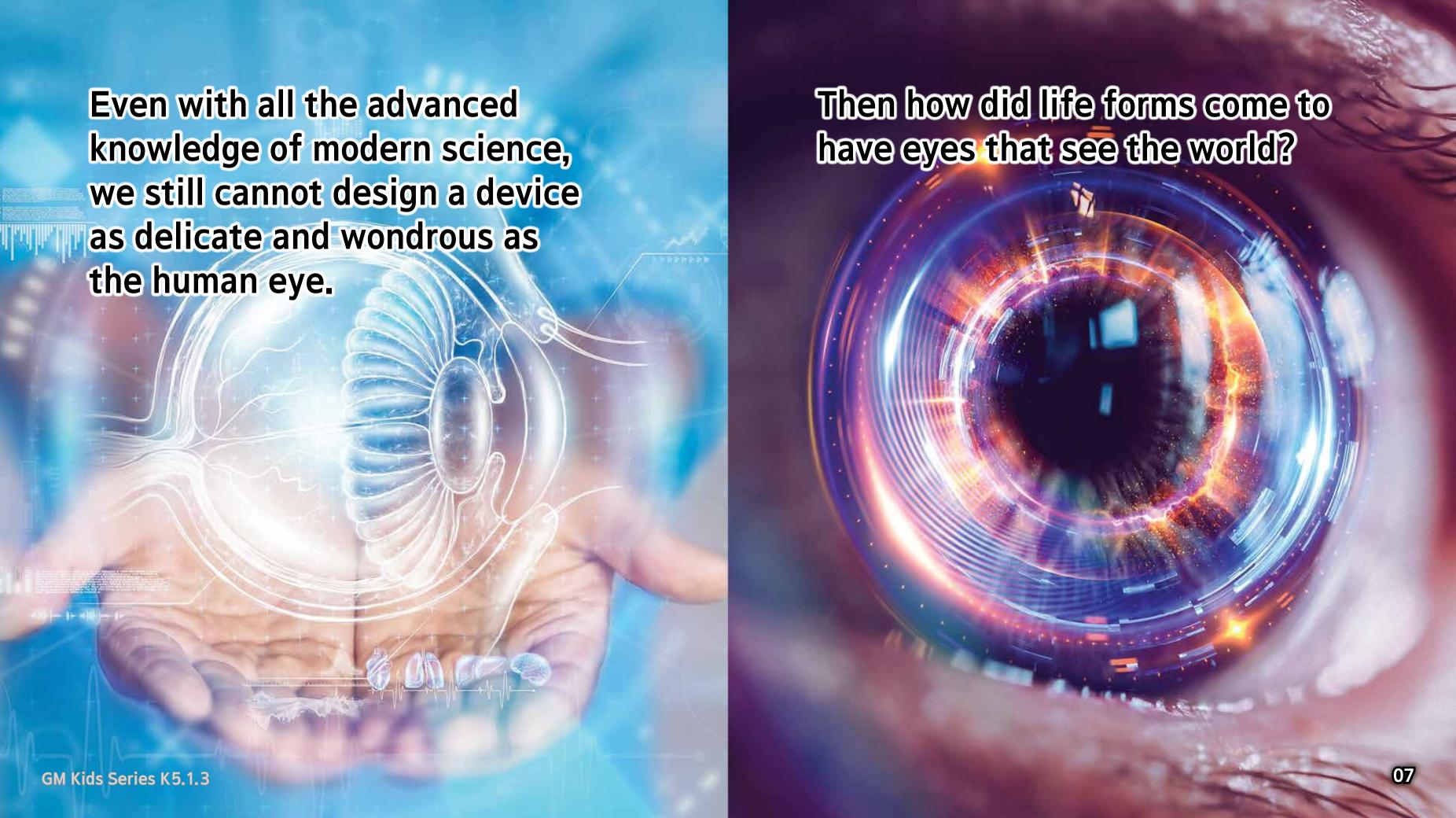
On the Origin of Species.

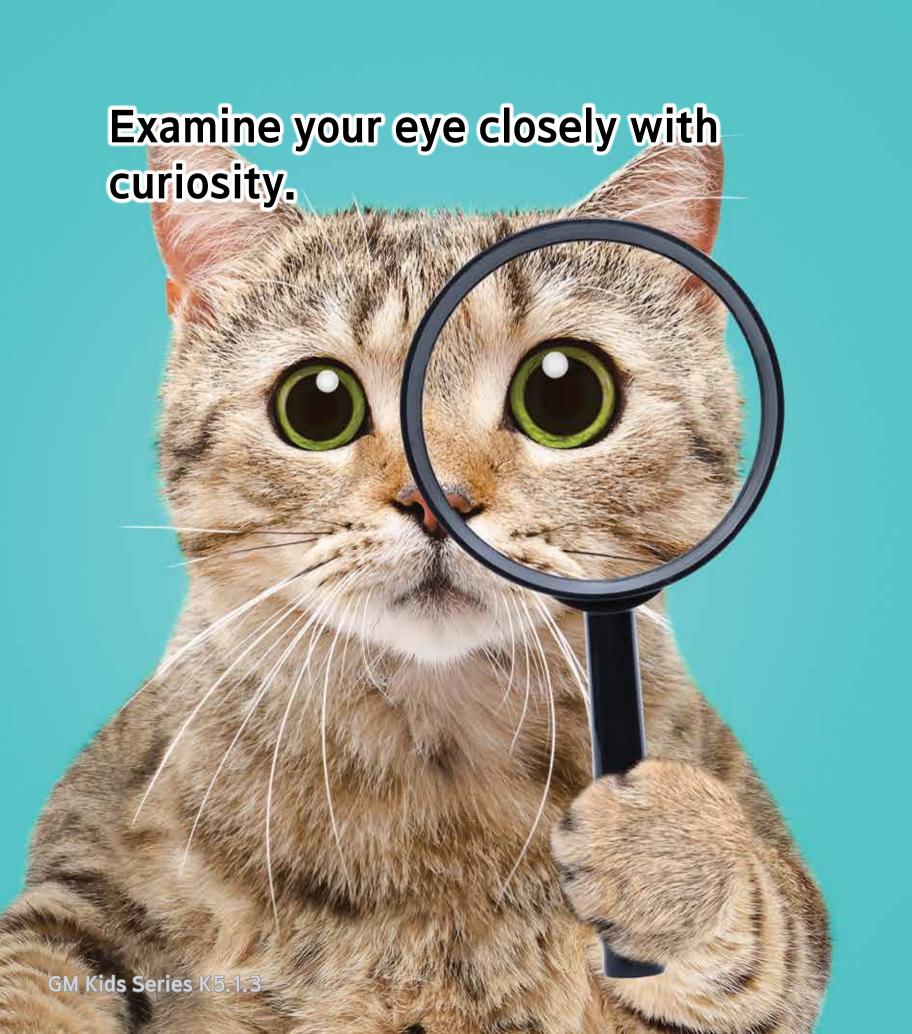


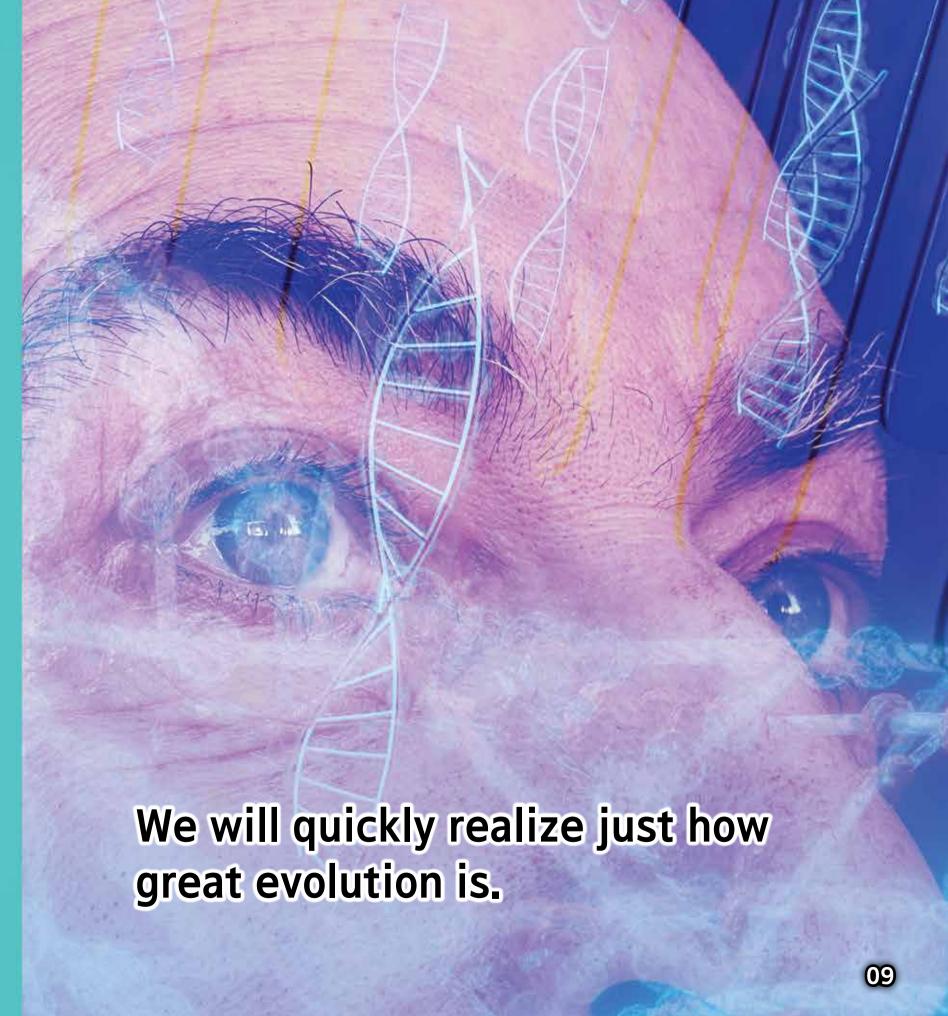
GM Kids Series K5.1.3

"If there was even a single organ that could not have been formed by many, successive, slight modifications, my theory would absolutely break down. But I have not found any such organ."







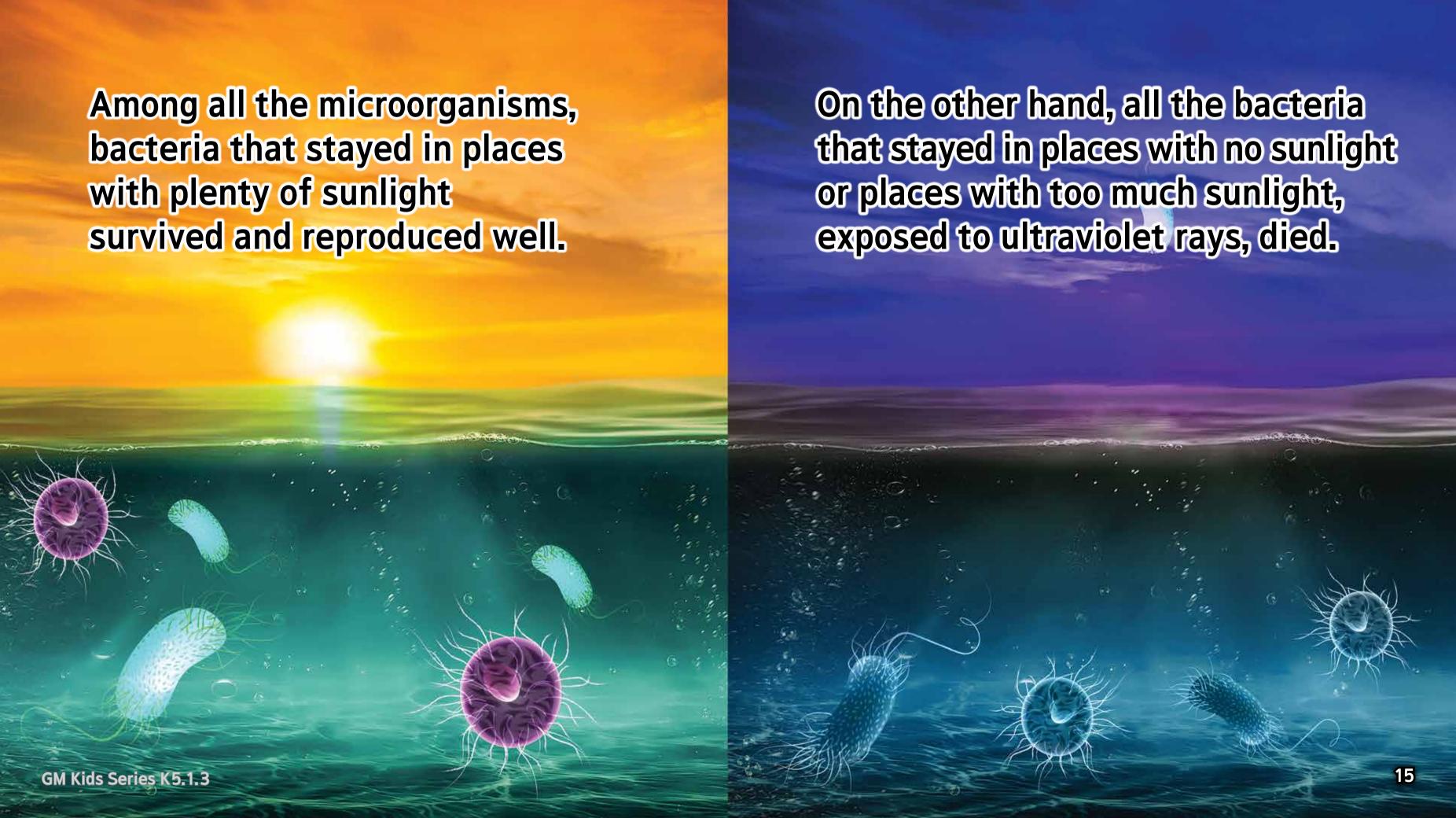


About 3.8 billion years ago, the first life forms on Earth did not have eyes.



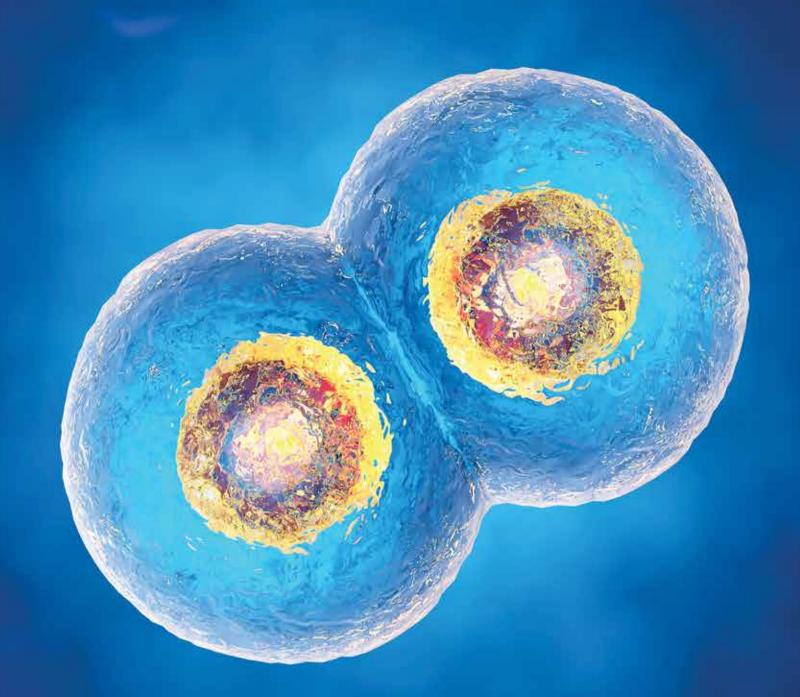




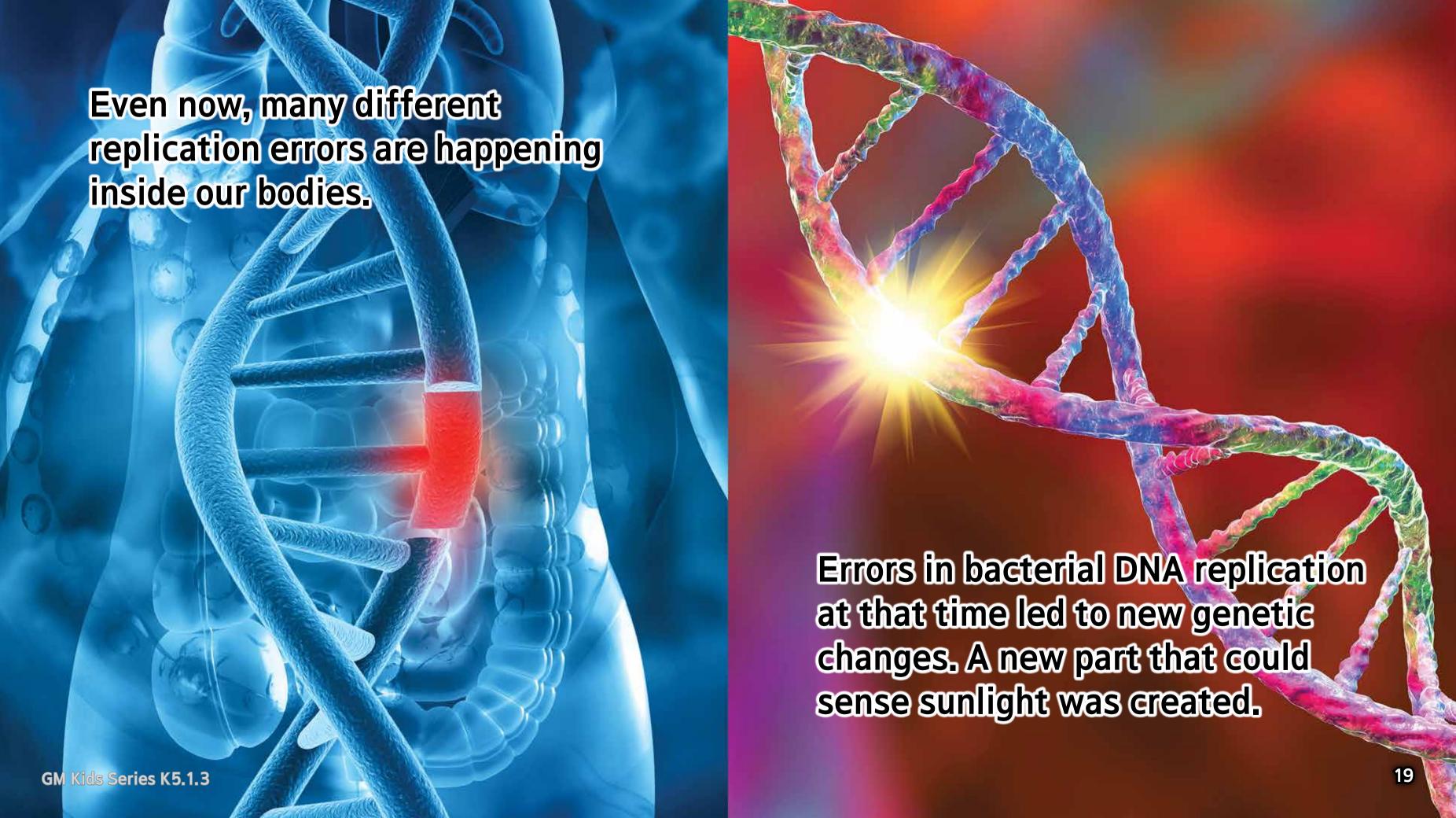




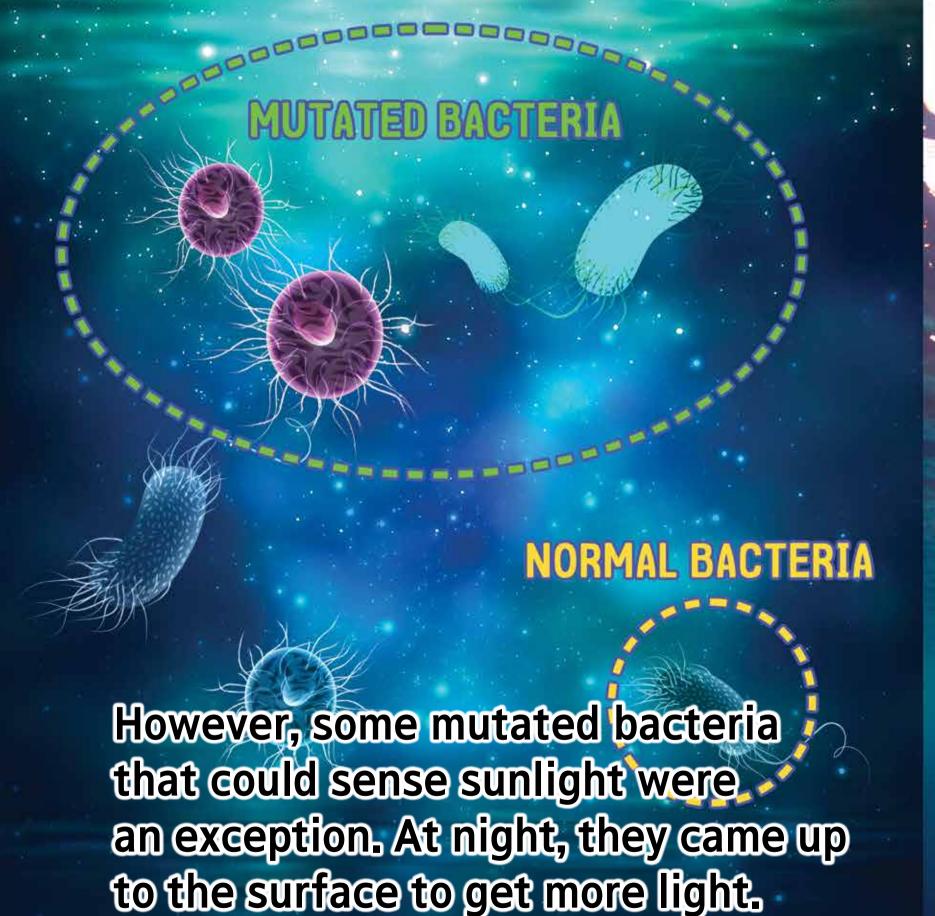
However, a DNA replication error occurred in the reproduction process of bacteria that were lucky enough to get sunlight.



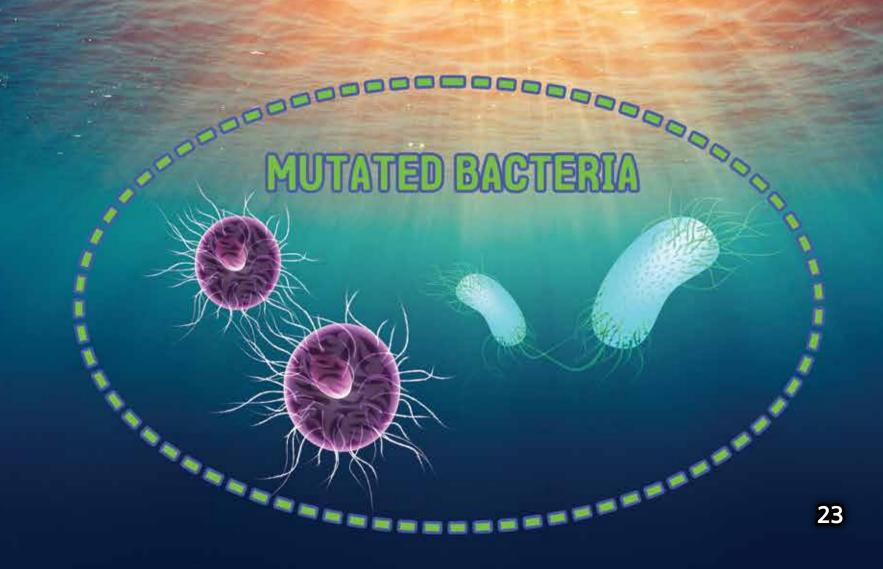
DNA replication errors are common mistakes that happen during the reproduction process of life forms.







During the day, they went below the surface to avoid harmful ultraviolet rays, safely absorbing sunlight to survive and reproduce. Eventually, the number of these smart mutated bacteria grew rapidly.



Meanwhile, the bacteria that could not sense sunlight barely survived and slowly decreased in number.

Over generations, the mutated bacteria were naturally selected. In nature, it is not the strongest genes that survive, but the genes that survive are considered strong.

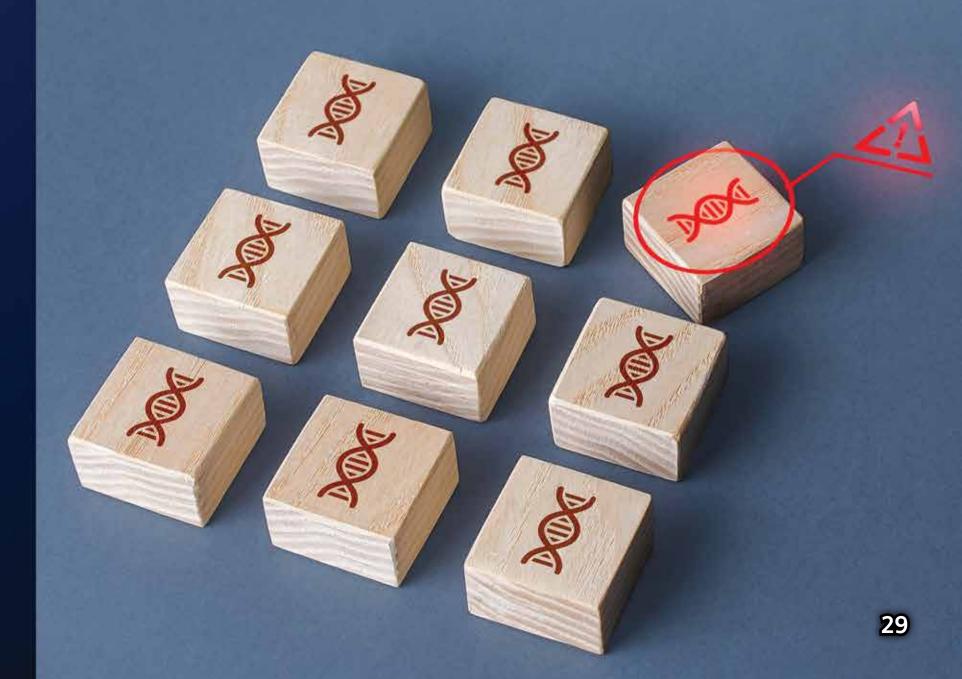






When genes are copied, errors happen once in every 100,000 times.
Luckily, genes have a function that fixes these errors.

However, this function is not perfect, and it misses an error once in every 100,000 times. As a result, mutations happen.



Mutations can also happen because of physical and chemical factors.

