## What happens if the virus mutates and the vaccine no longer proves effective?

All viruses mutate,
but the current COVID-19 vaccines are
still effective against most variants of the
COVID-19 virus. For some variants, the spike
protein which is targeted by the vaccines
has mutated so much that they
are less effective.

Scientists are closely
monitoring any changes to the
virus so that we can predict
whether an alternative vaccine
might be needed.



A benefit of the new types of vaccines is that it is relatively quick and easy to change the genetic code so that it incorporates these mutations, if this was necessary.

