COVID-19
STUDENT WORKSHEET

Name: __KEY________

1) COVID-19 is a disease caused by the SARS-CoV-2 virus. (True or False)
   ☒ True
   ☐ False

2) Different types of viruses have unique genetic material. This is how scientists tell different types of viruses apart. (True or False)
   ☒ True
   ☐ False

3) Developing a brand-new vaccine traditionally takes __YEARS__. (Fill in the blank)
   Why does it take so long? (short Answer)
   Research of the genome, development of safe effective vaccines, trials, production, and distribution.

4) A vaccine trains your immune system to respond to ____________. (Select one)
   ☒ a specific virus
   ☐ all pathogens
   ☐ any virus
   ☐ symptoms of a specific virus

5) All vaccines last a lifetime. (True or False)
   ☐ True
   ☒ False

6) All vaccines require boosters. (True or False)
   ☐ True
   ☒ False

7) __RNA_____ vaccines are being developed and tested for the SARS-CoV-2 virus. This type of vaccine will provide our cells with the genetic information to mimic the creation of spike proteins. (Fill in the blank)

8) __Adenovirus_______ vaccines are created when scientist insert the genetic information for the target virus inside of a weakened virus so our bodies generate an immune response for the target virus without any risk of infection. (Fill in the blank)
9) Effective vaccine distribution is a complex issue and involves considering many issues. List three things that can affect how a vaccine is distributed. (Short answer)
   • Temperature restrictions
   • Shelf life, how long it lasts before it no longer works
   • Infrastructure, roads

10) Once we have a safe and effective vaccine for the SARS-CoV-2 virus who do you think should be given access first and why? (Short answer)
    Answers will vary

11) Why are scientists studying llamas right now? (Short answer)
    Their nanobodies are much smaller than human antibodies.

12) What are you most looking forward to when the Pandemic is over? (Short answer)
    Answers will vary