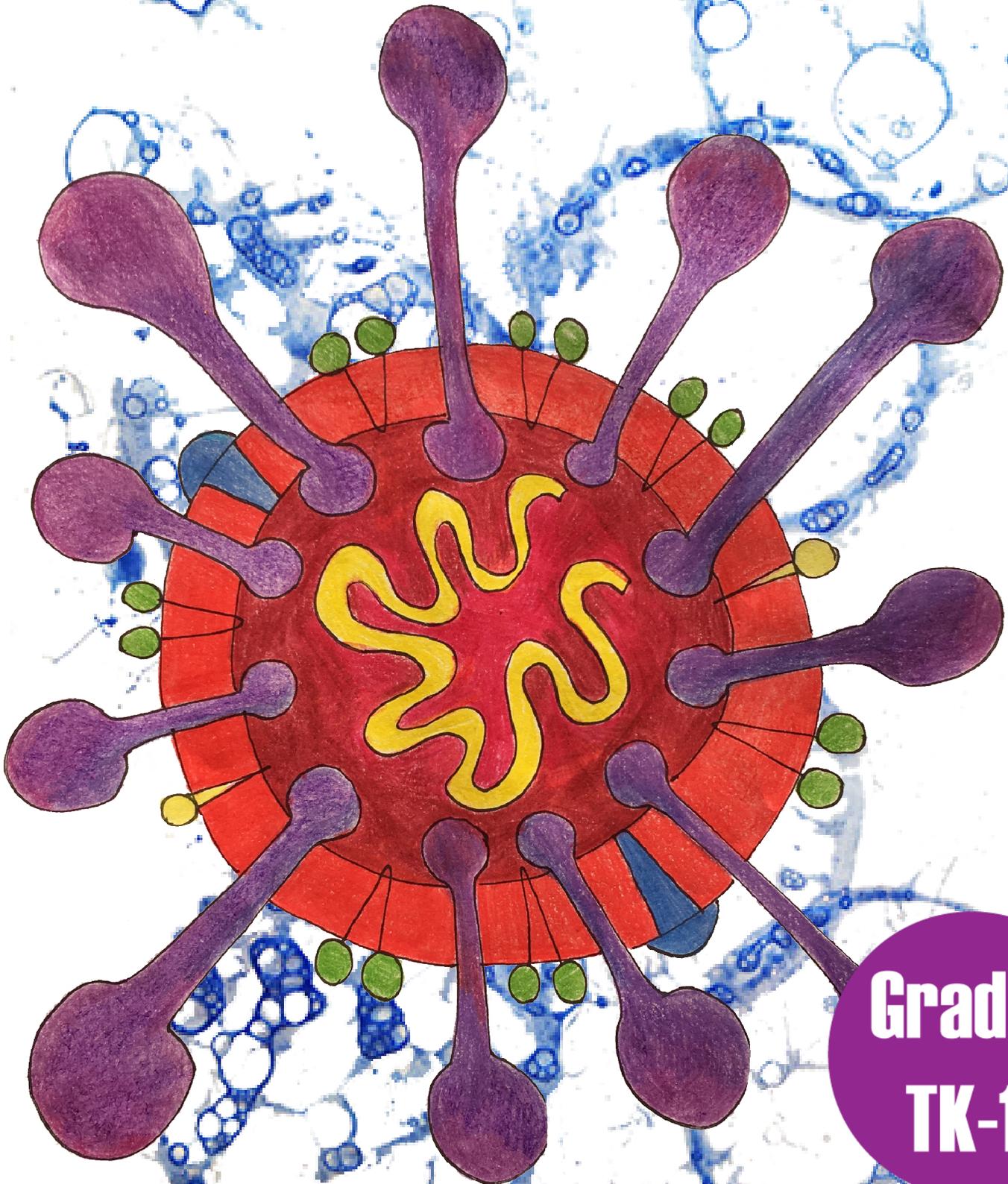


COVID-19

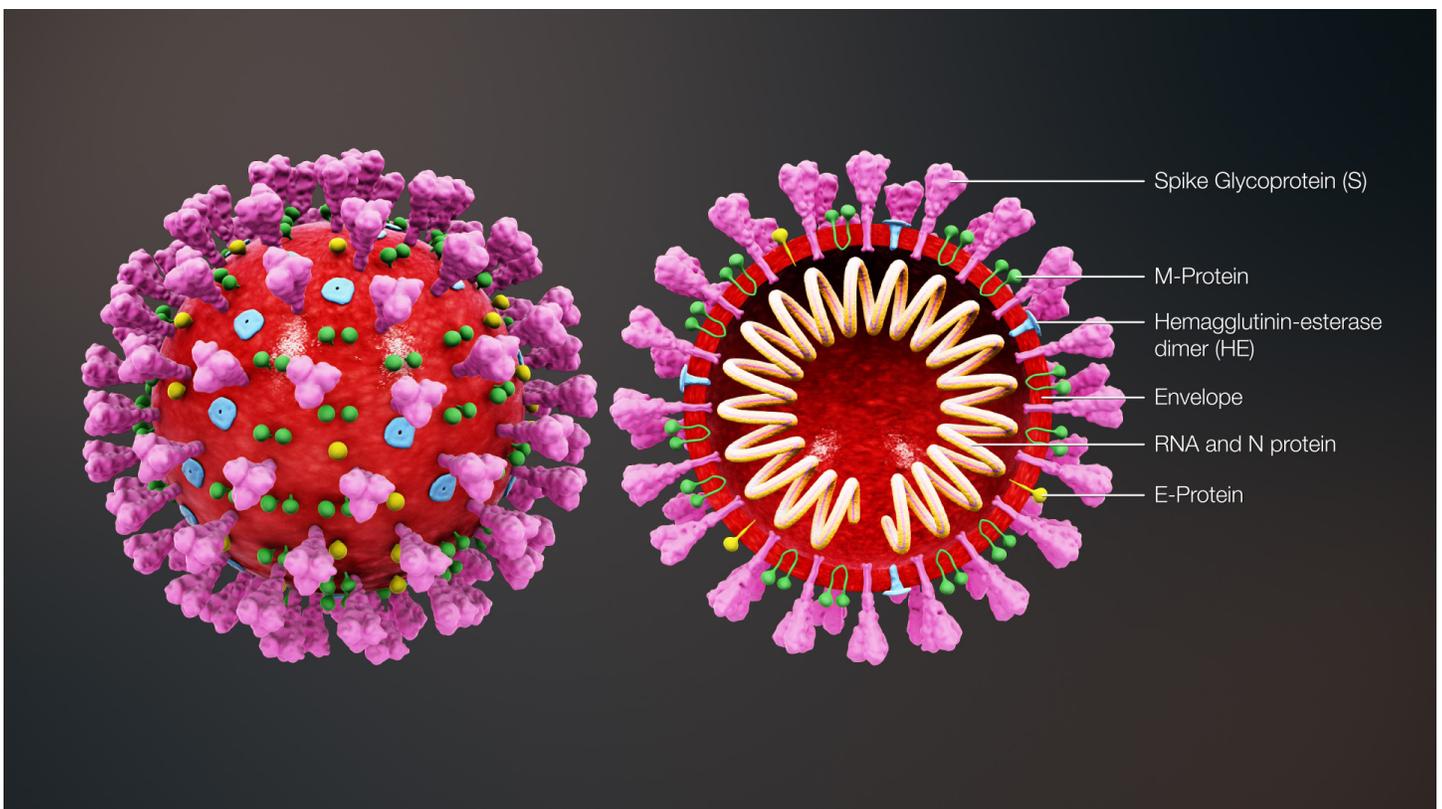


**Grades
TK-12**

Drawing • Coloring • Bubble Painting

Materials

- 8.5 x 11 white photocopy paper
- regular pencil
- colored pencils
- 1/2 tsp of dish soap (Palmolive / Dawn / Joy)
- 1/2 tsp of blue liquid washable paint
- 1 Tbsp of water
- plastic cup
- straw



Coronavirus, Inside and Out. Source: CDC; referenced on Wikipedia (<http://ow.ly/H1aD50ym8XB>)

Introduction

What is COVID-19? What is a virus?

A virus is like Voldemort, the villain in the Harry Potter series: not dead and not quite alive. Just like Voldemort taking over Professor Quirrell's body, COVID-19 gains power and starts living when it takes over a living cell. Once inside a living cell, COVID-19 goes viral by replicating, multiplying, itself very quickly; hence the term going viral.

Where does the name COVID-19 come from?

COVID-19 is an acronym which stands for:

'CO' = 'corona'

'VI' = 'virus'

'D' = 'disease'

'19' = 2019



SARS-CoV-2 virus particles
Credit: NIAID-RML

What does it look like?

Under a microscope, COVID-19 looks like a sphere with spikes on its surface (which gives the corona virus its name, meaning 'crown' in Latin).

STEP 1: SKETCH A COVID-19

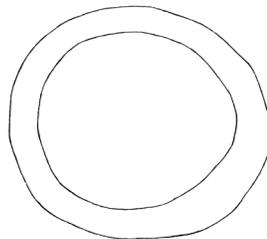
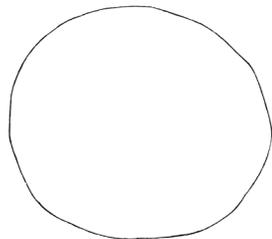
Young artist may skip STEP 1 and PRINT a copy of the virus instead

1

MATERIALS:

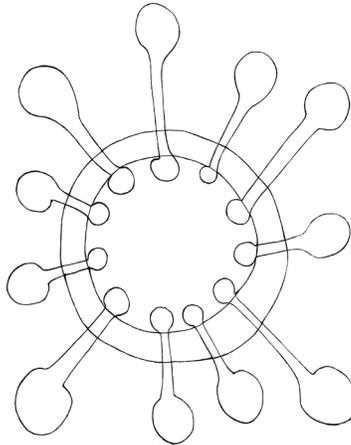
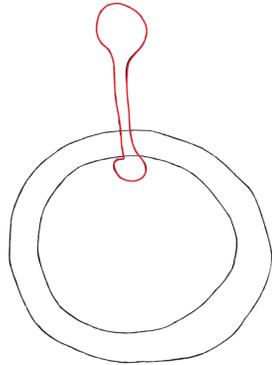
regular pencil and white drawing paper

2

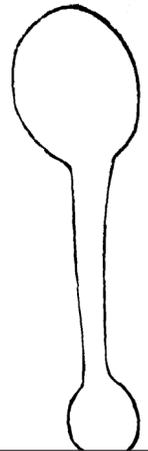


With a regular pencil, draw two circles for the **ENVELOPE** in the center of your white 8.5" x 11" photocopy paper

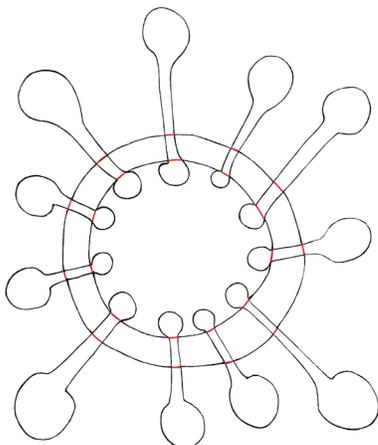
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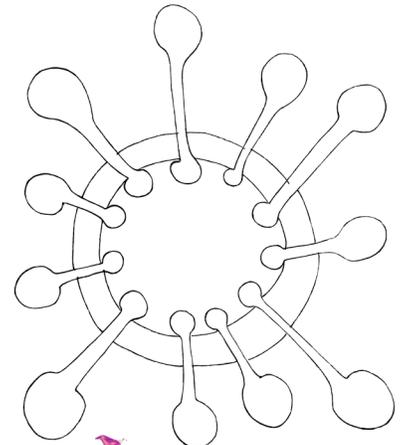
Add 11 - 12 **SPIKE PROTEINS**

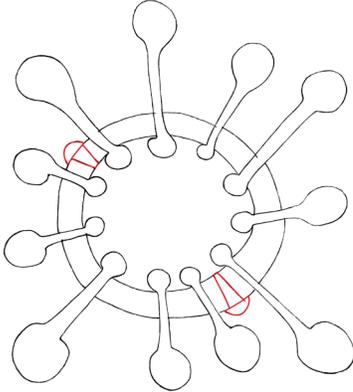
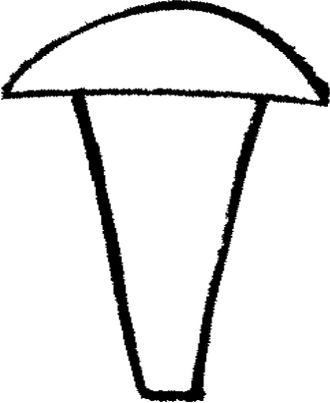
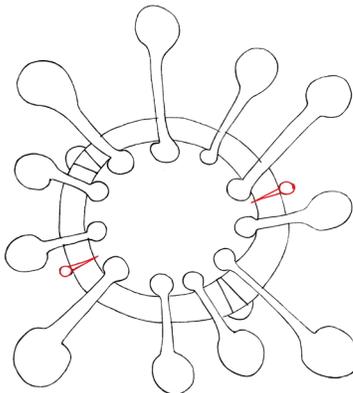
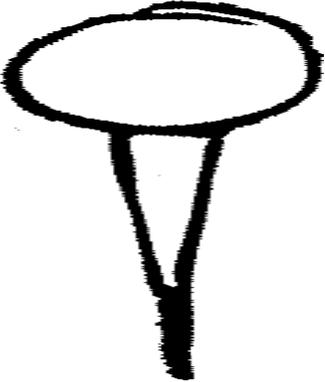
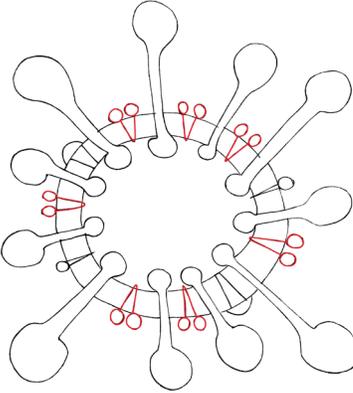
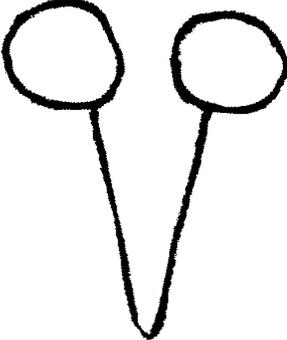
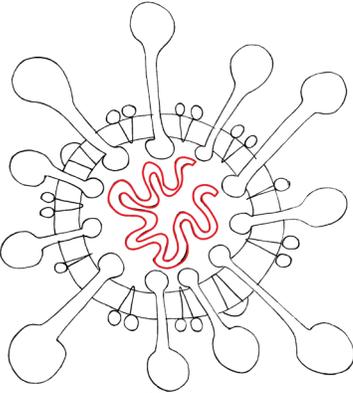
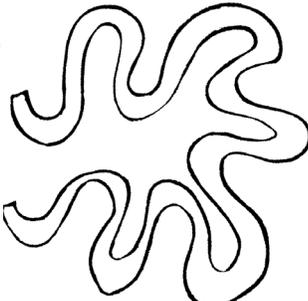
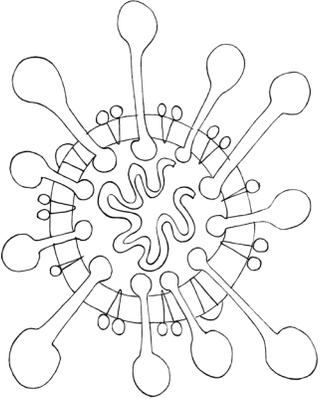


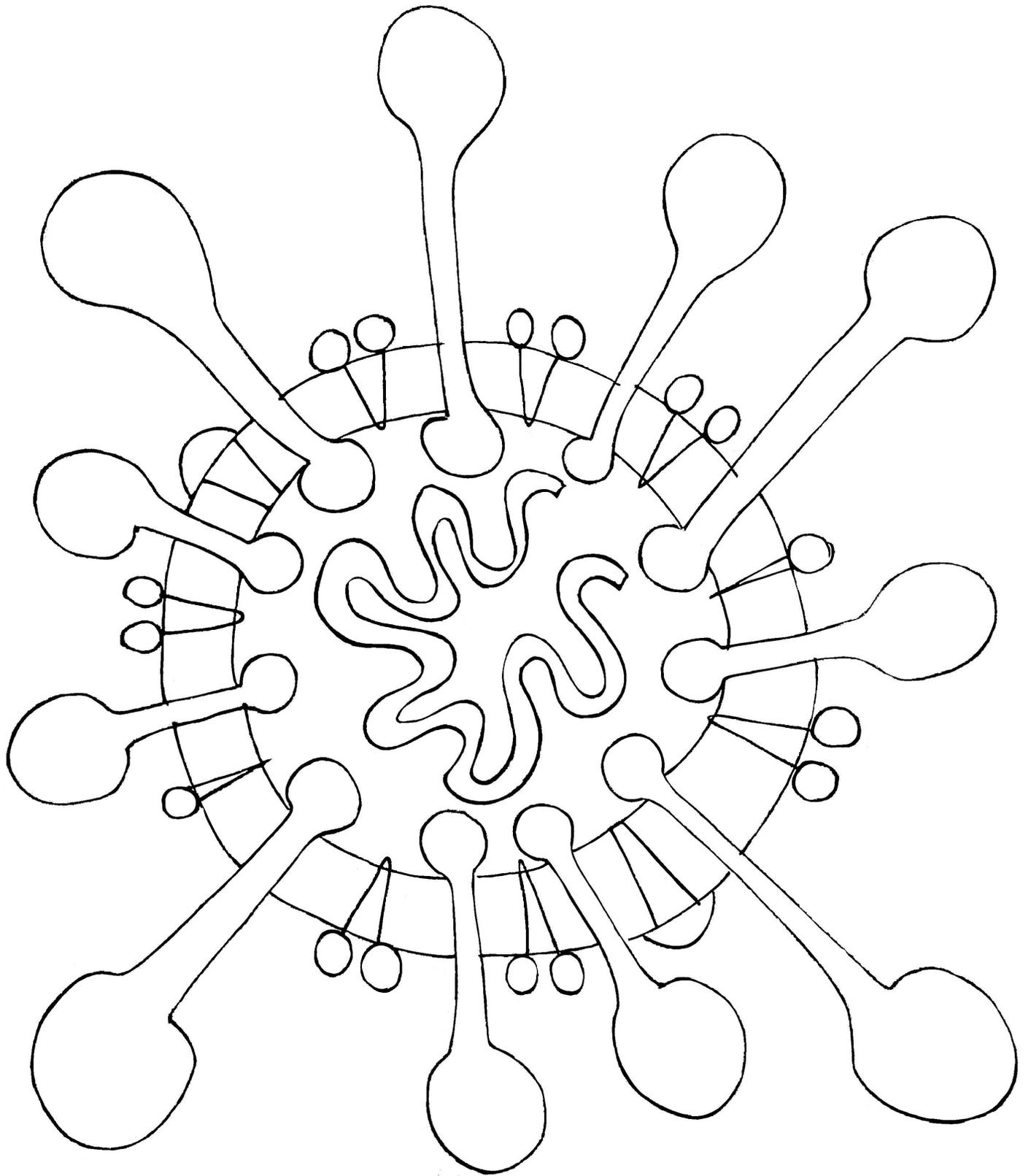
4



Erase the envelope lines inside each **SPIKE**

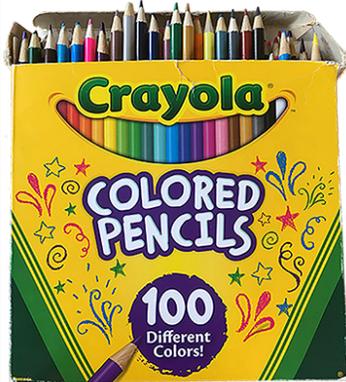


5			<p>Draw 2 H-E DIMERS on opposite sides of the virus</p>
6			<p>Randomly draw 2 E-PROTEINS, again across from each other</p>
7			<p>Add M-PROTEINS between the SPIKE PROTEINS in the remaining spaces</p>
8		<p>Draw the RNA STRING in the center of the virus</p> 	



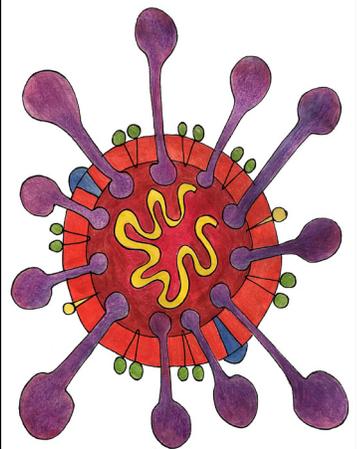
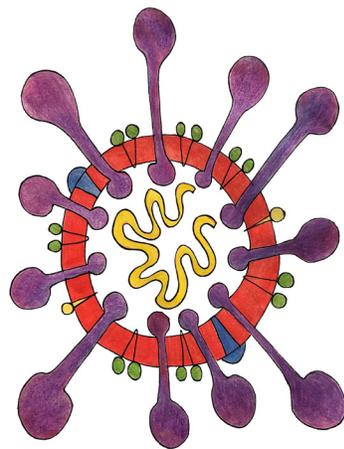
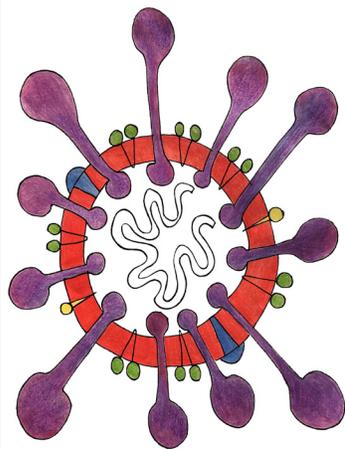
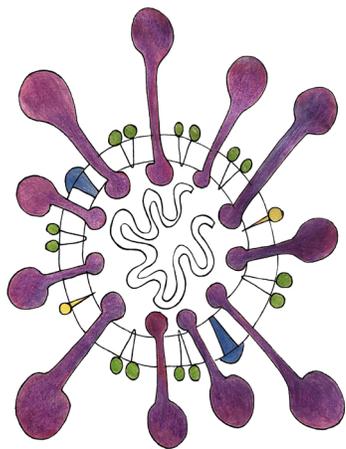
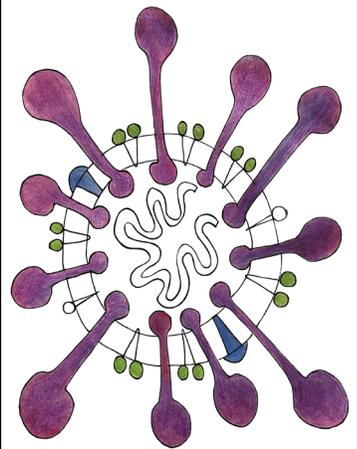
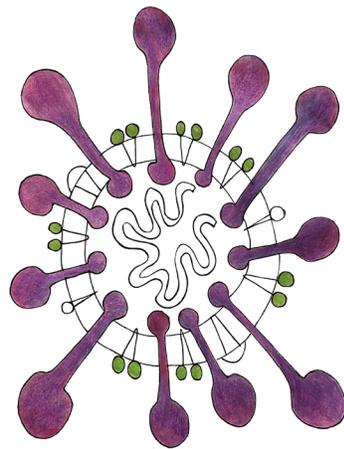
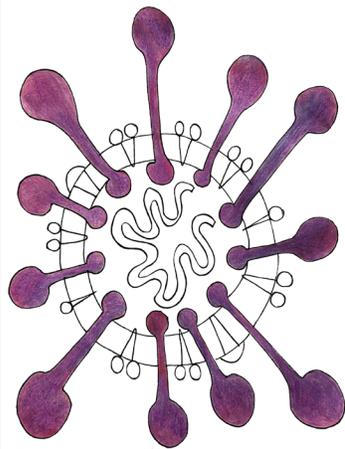
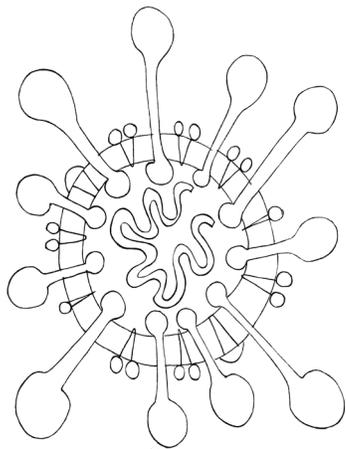
STEP 2: COLOR YOUR COVID-19

MATERIALS:

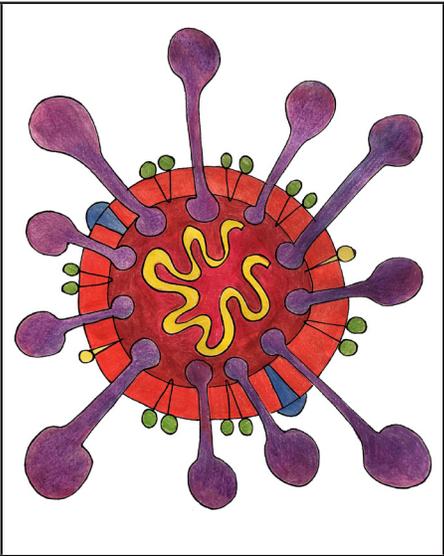


You can use any color you like for your COVID-19 virus. I used purple for the spike proteins; green for the M-proteins; blue for the H-E dimers (their real names are hemagglutinin-esterase); red for the envelope and the center; and yellow for the E-protein and RNA string.

(Fun Fact: Viruses have no color as they are smaller than the wavelength of light).



STEP 3: WASH IT AWAY

<p>1</p>		<p>MATERIALS: measuring spoons plastic cup dish soap blue liquid paint water straw colored COVID19</p>	
<p>2</p>		<p>In a plastic cup, MIX: 1 tsp of dish soap with</p>	
<p>3</p>		<p>1 tsp of liquid blue paint and</p>	
<p>4</p>		<p>1 Tbsp of water</p>	

5

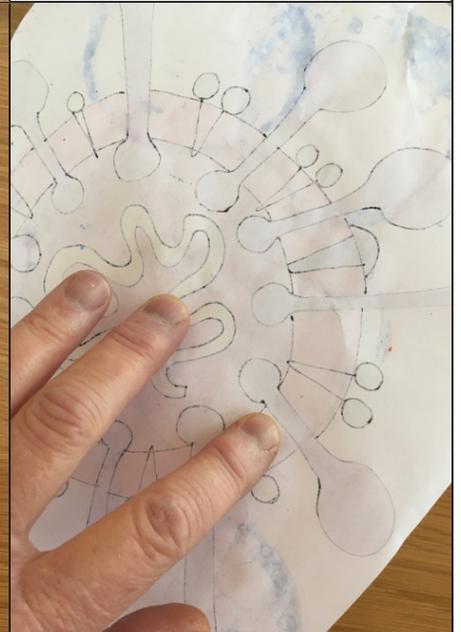


Use the straw to mix the soap, paint and water together in the plastic cup.

BLOW BUBBLES

6

When the bubbles reach the top of your plastic cup, remove the straw and place your colored COVID-19 drawing, face down, over top of the bubbles.



7

Repeat step 6 until the virus is

ALL
WASHED
AWAY!

