

BiologyStein HighTeacher - Ranvir Gill

Distance Learning

April – Assignments 1, 2, 3 & 4

Student Name: _____

Teacher: Ranvir Gill - rgill@tusd.net – Ph # 209-275-7566 Off hrs: 9:00am-1pm Mon – Fri till May 15*Students may complete & turn in one or more assignments for Biology class - May 8–May 15. Each assignment is worth 15 lessons (1 credit).*

1. *If you need 15 lessons, you could complete the EASTER assignment by May 8 or May 15.*
2. *If you need 30 lessons, you could complete two assignments by May 8 or May 15.*
3. *If you need 45 lessons, you could complete three assignments by May 8 or May 15.*
4. *If you need 60 lessons, you could complete four assignments by May 8 or May 15.*
5. *If you need 75 lessons, you could complete five assignments by May 8 or May 15*
6. *You should write your name on every page that is turned in (both digital and paper) to ensure that your work is and not lost*
7. *All student work (digital or paper) work is due by May 8 or no later than May 15*

Directions for the Assignments**Total Credits - 5**

- Complete 1st assignment by May 8 – 15 – 15 lessons - Assignment 1
- Complete Pages 3 – 4 by May 8 – 15 lessons – Assignment 2
- Complete Page 5 by May 8 – 15 lessons - Assignment 3
- Complete Page 6 by May 15 – 15 Lessons - Assignment 4
- Complete Page 7 by May 15 – 15 lessons – Assignment 5
- Assignment numbers are on the 2nd line on page 1 and on the top line of each assignment.
- Make sure to put your name on every page
- You may use google docs or paper assignment to complete these assignments
- These worksheets will be graded
- Score of at least 60% is required to earn full credit for each assignment

Zoom Virtual Meeting: Monday – Thursday (April 6- April 9)

Ranvir Gill is inviting Parents and students to a scheduled Zoom meeting.

Topic: Questions about Biology, Human Physiology and Advisory/ Vision classwork

Time: Apr 6, 2020 12:00 PM Pacific Time (US and Canada)

Every day, until Apr 9, 2020, 4 occurrence(s)

Apr 6, 2020 12:00 PM

Apr 7, 2020 12:00 PM

Apr 8, 2020 12:00 PM

Apr 9, 2020 12:00 PM

Please download and import the following iCalendar (.ics) files to your calendar system.

Daily: <https://us04web.zoom.us/meeting/u50td-mgpz8scSvbmXH-u3TM4Z7wVpljww/ics?icsToken=98tyKu-hrjsqEt2RtlyCArItW4HqbuG5kXJ9vKFQpDeoFnNnT1fMYfV0lr51B8-B>

Join Zoom Meeting

<https://us04web.zoom.us/j/690008946?pwd=dDJlOVlzMzEtpeFd6WUJ4Q21tVzdKdz09>

Meeting ID: 690 008 946

Password: 774674

---- When is Easter and how will it be different this year amid coronavirus?

Assignment 1

Lessons 15

By N'dea Yancey-Bragg, Doug Stanglin, USA Today, adapted by Newsela staff - Published:04/03/2020

Easter is celebrated all around the world. It is one of the most important holidays in the Christian religion. The springtime holiday celebrates the belief that Jesus of Nazareth, also known as Christ, was resurrected from the dead. But this year, Easter celebrations will likely look a lot different. Especially as more than 1.5 billion people worldwide have been asked to stay home. This because of the spread of coronavirus. On March 26, the U.S. surpassed China and Italy as the nation with the most confirmed cases of COVID-19.

President Donald Trump gave an interview during the week of March 23. He said that he hoped to lift coronavirus restrictions by Easter. He wanted to do this because it would be a "beautiful time." Anthony Fauci is a member of the coronavirus task force. He is also the country's leading expert on infectious diseases. Fauci said the Easter deadline was "flexible." It would need to be evaluated on a day-to-day basis. Trump made another announcement on March 29. He said the restrictions would last all April. Here is a look at some of Easter's cherished traditions. This is how they may change because of the coronavirus pandemic.

What Is Easter?

There is a biblical story about Easter. It says that three days after Jesus was murdered he arose. The women who checked on his tomb Easter morning found it empty. Easter marks the end of Holy Week. It is also the last week of Lent.

When Is Easter?

This year, Easter is April 12. Easter falls on a different Sunday each year. It typically falls sometime between March 22 and April 25. Easter is held on the first Sunday after the Paschal moon or the first full moon occurring on or after the vernal equinox. Easter changes because it is tied to the Jewish calendar. In the Bible, Jesus was resurrected on the first Sunday after the Jewish festival of Passover. This also changes each year.

How Is Easter Celebrated?

Over Easter weekend churches hold special worship services. And communities host Easter egg hunts. And many children wake up to Easter baskets full of sweets or toys. Palm Sunday, Holy Thursday and Good Friday worship lead up to Easter church services. Many families also decorate eggs. This is a tradition which may have origins in pagan rituals. It celebrates the spring season dating back to at least the 13th century, according to the History channel. Those dyed, hardboiled eggs, or ones filled with candy, are often hidden for children to find. This is part of a game that may have been hatched in 16th century Germany by church reformer Martin Luther, according to CBS.

Egg hunts and egg rolls began around the Capitol building in the 1870s. They are among the most popular Easter activities for children. Many children also pose for photos with the Easter Bunny, who brings baskets full of treats. The bunny is another symbol that may have come from pagan rites of spring. Popular candies associated with Easter include Peeps. Other popular treats include chocolate bunnies and candy eggs like those made by Cadbury.

How Will Easter Be Different This Year?

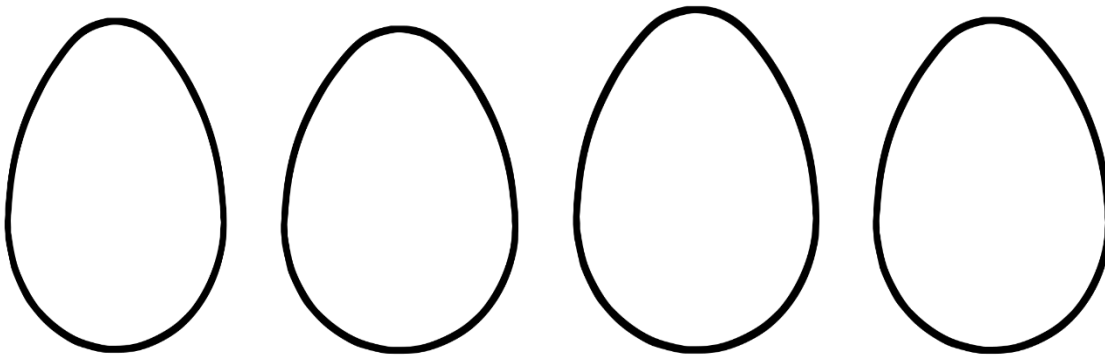
First lady Melania Trump canceled the White House Easter Egg Roll this year. She did this "out of an abundance of caution" amid the coronavirus pandemic. Coronavirus is also forcing churches to embrace new ways of worshiping. Many churches are rapidly shifting or expanding services online in time for Easter. This is to adhere to social distancing guidelines. Catholic archdioceses in major cities have closed churches. Some are encouraging priests to livestream Mass. This includes cities like Los Angeles, California; Chicago, Illinois; New York, New York; Philadelphia, Pennsylvania; New Orleans, Louisiana and Portland, Oregon.

With most of its 30,000 churches shutting down on Easter, the Methodist church is also turning online to fill the void. For Easter, the national Episcopal church organization is looking for a church in New York City from which to livestream the Sunday service. The Easter Bunny may also need to get creative this year (and keep its social distance). Treats may not be as readily available. Grocery stores may still be stocked with holiday favorites for those who are able to make the trip. Finding eggs to dye could be more difficult and expensive this year.

Q1. Why Coronavirus has shut down churches and forced them to go online during Easter? (50 words)

Q2. What is social distancing and how Easter may be different this year for your family? (100 words)

Q3. How many calories are in each Easter egg? Draw some designs on the following Easter eggs 😊



Q1. Read/ refer this chart and answer the following questions. - **Assignment 2** ----- 15 lessons

Country, Other	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	Active Cases	Serious, Critical	Tot Cases/ 1M pop	Deaths/ 1M pop	Reported 1 st case
World	912,565	+54,246	45,541	+3,239	191,826	675,198	34,857	117.1	5.8	Jan 10
USA	205,036	+16,506	4,516	+463	8,745	191,775	4,888	619	14	Jan 20
Italy	110,574	+4,782	13,155	+727	16,847	80,572	4,035	1,829	218	Jan 29
Spain	102,136	+6,213	9,053	+589	22,647	70,436	5,872	2,185	194	Jan 30
China	81,554	+36	3,312	+7	76,238	2,004	466	57	2	Jan 10
Germany	76,544	+4,736	858	+83	18,700	56,986	3,405	914	10	Jan 26
France	52,128		3,523		9,444	39,161	5,565	799	54	Jan 23
Iran	47,593	+2,988	3,036	+138	15,473	29,084	3,871	567	36	Feb 18
UK	29,474	+4,324	2,352	+563	135	26,987	163	434	35	Jan 30
Switzerland	17,137	+532	461	+28	2,967	13,709	348	1,980	53	Feb 24
Turkey	15,679	+2,148	277	+63	333	15,069	847	186	3	Mar 09
Belgium	13,964	+1,189	828	+123	2,132	11,004	1,088	1,205	71	Feb 03
Netherlands	13,614	+1,019	1,173	+134	250	12,191	1,053	795	68	Feb 26
Austria	10,585	+405	146	+18	1,436	9,003	215	1,175	16	Feb 24
S. Korea	9,887	+101	165	+3	5,567	4,155	55	193	3	Jan 19
Canada	9,489	+877	108	+7	1,445	7,936	120	251	3	Jan 24
Portugal	8,251	+808	187	+27	43	8,021	230	809	18	Mar 01
Brazil	5,923	+206	206	+5	127	5,590	296	28	1.0	Feb 24

Q1. What is COVID 19? Why it is a pandemic?

Q2. How many total cases have been reported in the world, USA, Italy, Spain, China, Germany, France and UK? **(Refer Total Cases column)**

Q3. How many total COVID 19 cases have recovered in the world? **(Refer total recovered column)**

Q4. How many COVID 19 cases have recovered in USA, Switzerland, South Korea, UK, Canada, Portugal and Brazil? **(Refer total recovered column)**

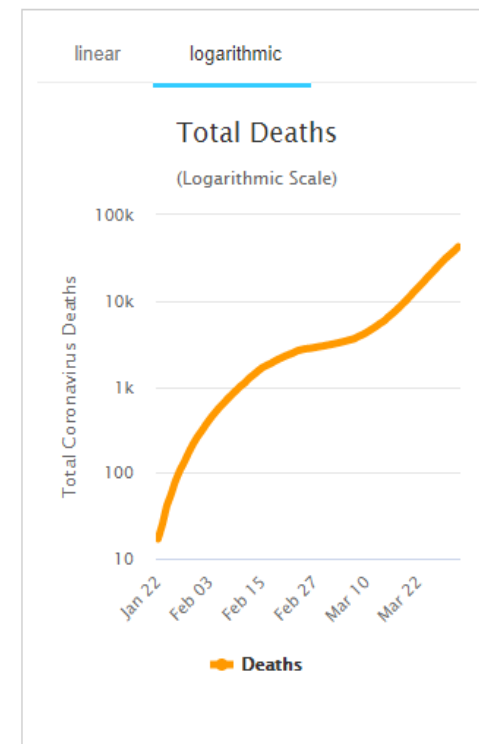
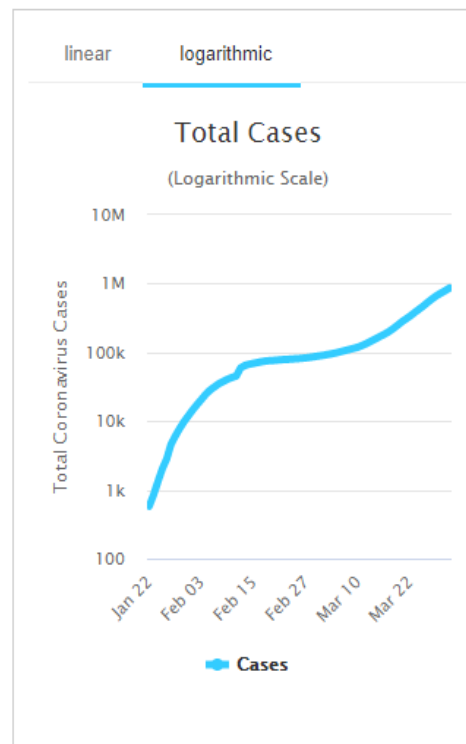
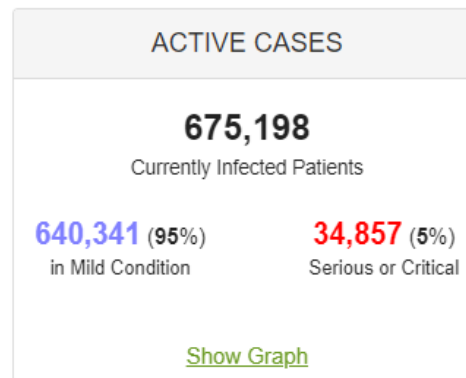
Q5. When was the 1st COVID 19 case reported in China, USA, Canada, UK, and S. Korea? **(Refer the last column)**

Q6. Share your views how we can limit/ control the spread of COVID 19 in USA and around the world? **(Draw and explain in 50 words)**

Why it is important to eat healthy Food?	Why it is important to wash hands?
Why it is important stay at home?	Why it is important to self-quarantine?

Refer the following figures, numbers and graphs to answer the questions:

Q1. How many current COVID cases are in mild condition or serious condition?	Q2. How many COVID 19 cases have recovered?
Q3. How many total COVID 19 cases were reported on January 22, Feb 3, Feb 15, Feb 27, March 10 and March 22?	Q4. How many deaths were reported on February 3, Feb 15, Feb 27, March 10 and March 22?



If someone is sick in your family how you can help them and take care of yourself and your siblings?

You may Go online - <https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/steps-when-sick.html>

Prevent Getting Sick



You can take steps to protect yourself and others during a COVID-19 outbreak.

- The virus is thought to spread mainly from person-to-person.
- There is currently no vaccine to prevent coronavirus disease 2019 (COVID-19).
- **The best way to prevent illness is to avoid being exposed to this virus.**

COVID-19 is a new disease and **we are still learning how it spreads**, the severity of illness it causes, and to what extent it may spread in the United States.

Person-to-person spread

The virus is thought to spread mainly from person-to-person.

- Between people who are in close contact with one another (within about 6 feet).
- Through respiratory droplets produced when an infected person coughs or sneezes. These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs.

Q3 - Share your ideas how you are keeping yourself, your family and your pets safe from COVID 19? (Draw & share your ideas in 50 words)

Draw	Write

Play it safe: **What kids should know about the coronavirus outbreak.**

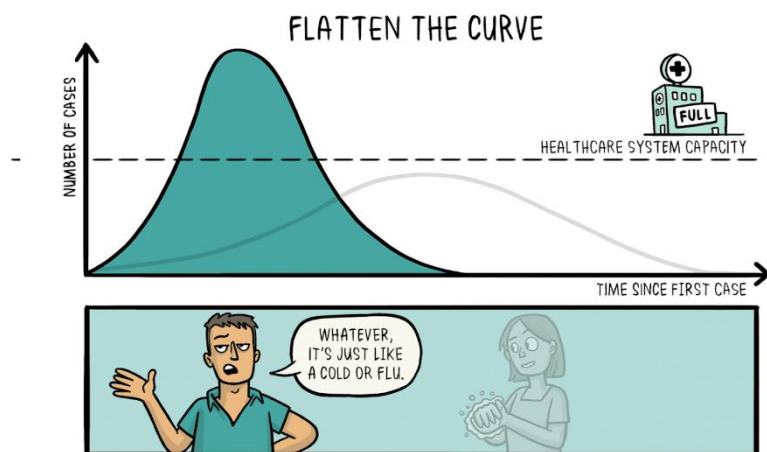
(By Jason Bittel, Washington Post - Published:03/24/2020)

With schools closing across the nation in response to coronavirus concerns, many students may be jumping for joy. Others are worried, scared or confused. But as the American essayist Ralph Waldo Emerson wrote, "Knowledge is the antidote to fear."

With that in mind, let's answer a few common questions about coronavirus.

Everybody keeps talking about "coronavirus" and "covid-19." Which is it?

Technically, either of these terms could be correct, depending on how they are used. The actual virus that appeared in China at the end of 2019 and has since hopped across the world is called "SARS-CoV-2." This is short for "Severe Acute Respiratory Syndrome" and "coronavirus." Once the virus gets into a person, it can cause an illness known as "Coronavirus Disease 2019," or covid-19. Also, you might hear it referred to as a "novel coronavirus." This means that scientists already knew about other coronaviruses, such as the one that caused an outbreak of SARS in Asia in 2003, but that this one is new.



How does covid-19 affect people?

The most common symptoms of covid-19 include fever, cough and/or shortness of breath. A person might develop one or more of these symptoms in as few as two days after being exposed to the virus. But they may also not feel sick for up to two weeks after contact.

The first figure is showing the impact of social distancing in helping to limit the spread of coronavirus.

Scientists say most people who get the virus will be able to fight it as they might a bad case of the flu. However, some people will have a harder time than others. Elderly people seem to be especially vulnerable. So are those with other conditions such as heart disease, lung disease or diabetes. Some people who have the virus won't even realize it but in the worst cases, covid-19 can result in death. Fortunately, death is extremely unlikely to happen in infected children and teenagers.

Can pets get covid-19?

So far, one dog in Hong Kong has tested positive for the coronavirus. However, it isn't showing any symptoms. So it's unclear whether the virus can have a negative effect on pets. According to the World Health Organization, there is no evidence yet that dog owners can catch the virus from their pets. Of course, if you keep your animals inside and avoid walking them in public places, they will be even more unlikely to come into contact with the virus. Corona virus in Cats and Dogs is a different one.

Why are schools, stores and restaurants closing?

Because SARS-CoV-2 is new, our immune systems haven't had a chance to learn how to fight it off. This allows the virus to move around quickly, infecting many new people for each group it comes into contact with. This makes schools, stores, restaurants and other public gatherings the perfect places for the virus to spread.

The biggest concern now is that if enough people get sick at the same time, hospitals might not be able to keep up with the demand for treatment. This concern comes from what happened in Italy. This is a problem for those who need treatment because of covid-19. This is also a problem for anyone else who might need medical services for everything from a twisted ankle or a cut requiring stitches to more serious conditions.

Can this coronavirus be stopped?

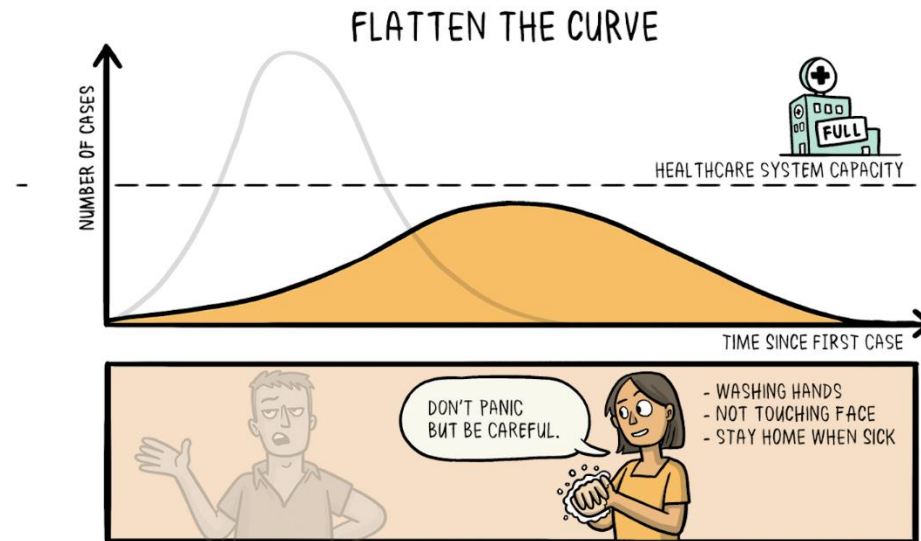
There are many scientists around the world working to develop a vaccine. This could be used to halt the spread of this coronavirus for good. However, it will take time to develop that vaccine. There are measures communities and families can adopt to help slow the virus' spread.

Why do we have to wash our hands so often?

First, washing your hands after going to the restroom or before handling food is a great practice in general. It can help you avoid catching all sorts of nasty illnesses. But hand-washing has become even more important as this coronavirus spreads. This is the easiest way to ensure you're washing your hands well enough: Use warm or cold water and soap and keep scrubbing every inch of your fingers, thumbs, palms and wrists. Scrub for the time it takes to sing "Happy Birthday to You" twice. The Centers for Disease Control and Prevention (CDC) has more tips at [cdc.gov/handwashing](https://www.cdc.gov/handwashing). (Also, remember to cover your cough with a tissue or at least your inner elbow.)

What is "social distancing"?

Your parents might not want you to play basketball with your neighbors. Or they might not want you to go to a party that was scheduled for next weekend. This is because of something called "social distancing." And while it seems like a bummer, experts say it's another way everyone can work together to limit the impact of this coronavirus.



The idea behind social distancing is simple. The fewer people we have close contact with each day, the fewer opportunities the virus has to spread. (The CDC says "close" is six feet or less.) And that means not only will you and your family have better chances of avoiding covid-19, but so will your grandparents, your Scout group and the person you sit next to in a bus. Any of these people might be at a higher risk to have a more serious reaction from the virus.

How long will this last?

Unfortunately, no one can answer that question yet. The CDC recommends that large events be canceled or postponed for at least the next eight weeks.

Q1. How are you keeping your family, siblings and pets safe from COVID 19 and yet able to live daily life? (50 words)

Q2. How many hospitals are there in your community and how they may be prepared for COVID-19 outbreak? How many doctors, nurses, medical staff, beds and ICU units are available/ may be required to take care of the cases/ corona-19 patients? (50 words)

Q3. How many COVID-19 positive cases have been reported in San Joaquin county, Tracy, Manteca, Mountain House and Stockton? Do you think we are in safe? How can we stay safe and take care of our families and our community? (50 words)