

OGUN DIGICLASS

SUBJECT: CIVIC EDUCATION

**TOPIC: Emerging Issues: CORONA VIRUS
DISEASE (*COVID 19*)**



www.ogundigiclass.ng



Corona Virus

INTRODUCTION

The term Virus refers to submicroscopic infectious agents that replicates only in living cells of a host organism.

Viruses are capable of infecting all life forms, be it plants, animals and even other microorganisms.

They are usually made of either two or three parts; the RNA or DNA strand, the protein coat (capsids) and at times a viral envelope of fat like substance.

Virus usually mutates when they infect animals and are then transferred to man (Zoonotic) e.g Corona virus

The Corona Virus (Sars-CoV-2)

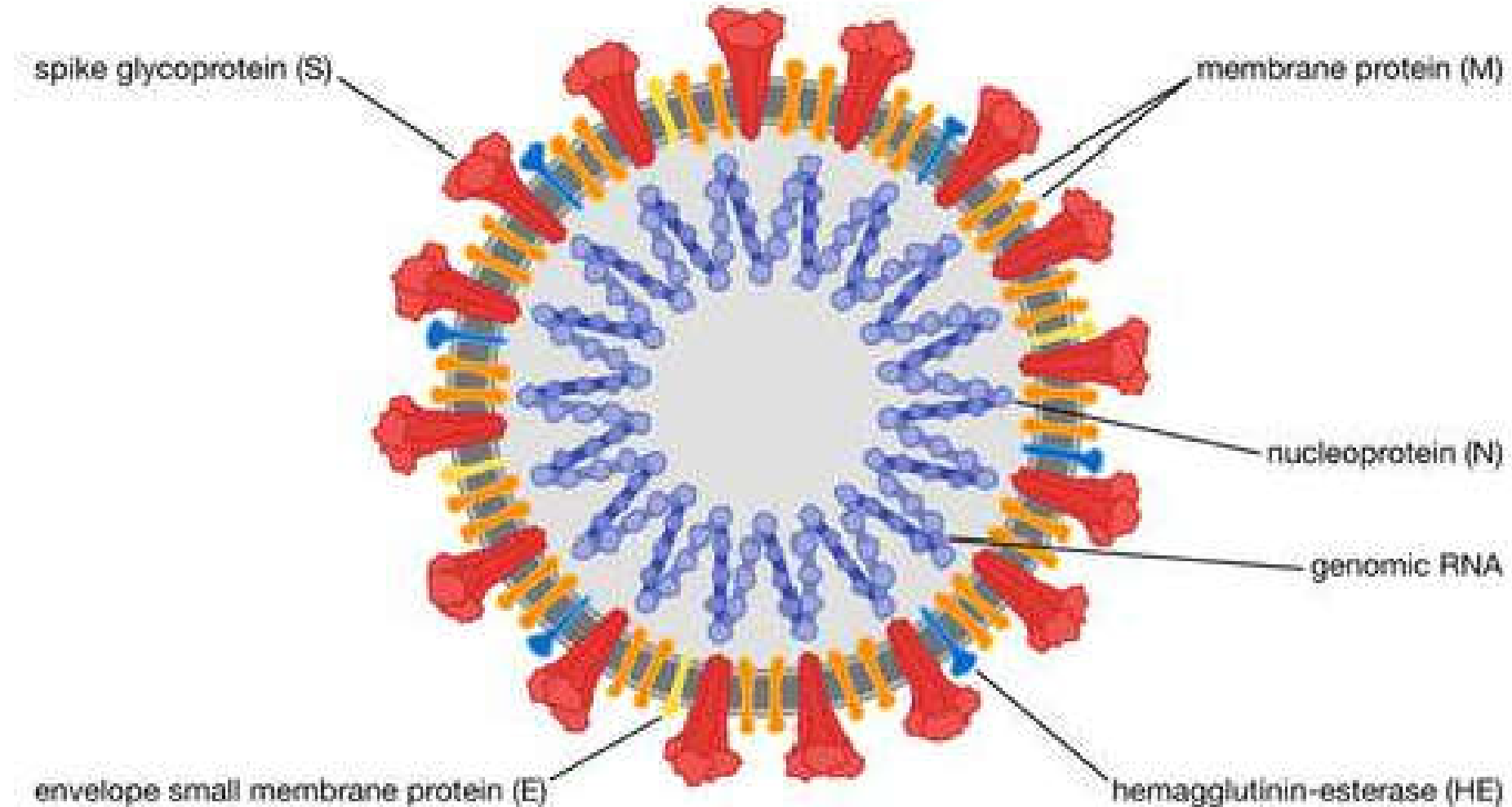
The Coronavirus belongs to the family Coronaviridae. It measures about **120nm** in diameter. It has three main parts; **capsid** (protein coat), a helical single strand of **RNA** and the envelope.

The SARS (Severe Acute Respiratory Syndrome) corona virus emerged in humans in 2002. it was believed to come from the Horseshoe bats. Another coronavirus that caused severe acute respiratory illness known as **MERS** (Middle East Respiratory Syndrome) developed in 2012 with the first case in Saudi Arabia with the reservoir believed to be camels infected by Horseshoe bats.

In 2019, a virus closely related to **SARS** corona virus emerged in Wuhan, China and was later named Corona virus 2 (**SARS CoV-2**).

The Structure of the Corona Virus (Sars-CoV-2)

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)



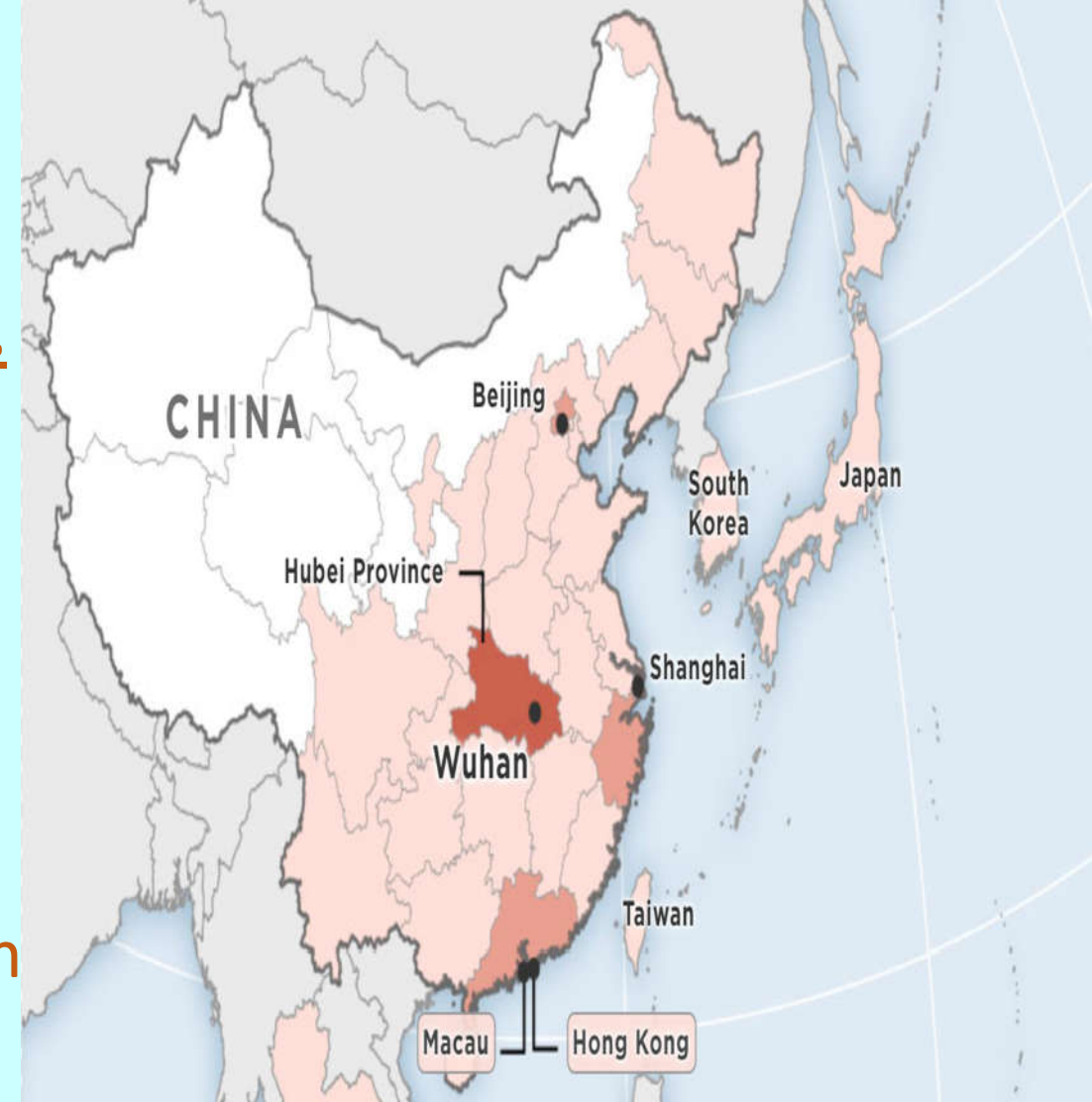
Source

Early cases were linked to the South China Seafood Wholesale Market, in Wuhan, China.

The South China Seafood Wholesale Market also has live wild animals, including chickens, **bats**, rabbits, snakes, which are more likely to be the source.

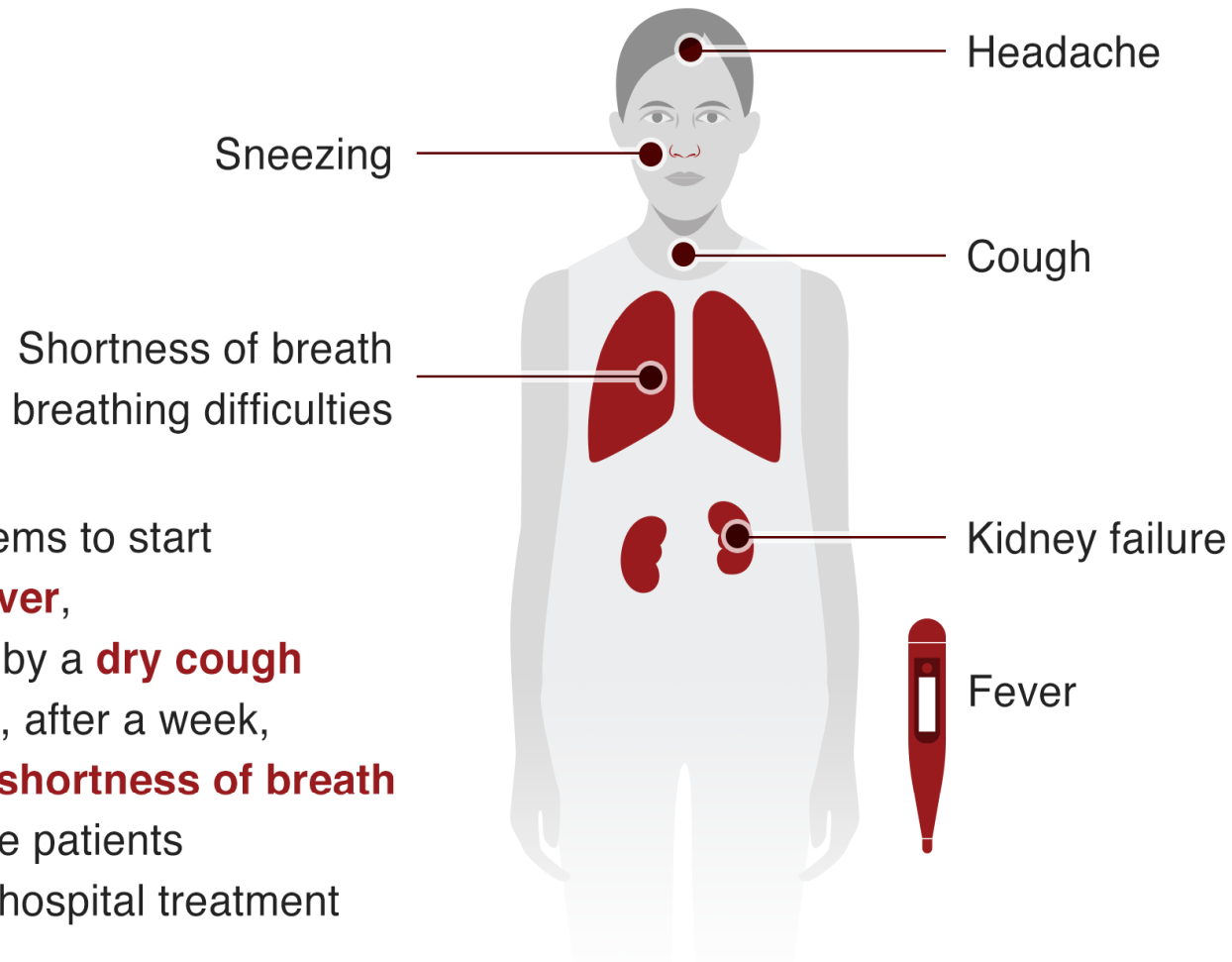
The new virus is closely related to one found in Chinese horseshoe bats.

However, it has not been confirmed that this is the source.



Symptoms

Symptoms of China coronavirus



Virus seems to start with a **fever**, followed by a **dry cough** and then, after a week, leads to **shortness of breath** and some patients needing hospital treatment

Symptoms

Most Common

- Fever
- Dry cough
- Tiredness

Less common

- Aches & pains
- Sore throat
- Diarrhoea
- Headache

Serious symptoms

- Difficulty in breathing/shortness of breath
- Chest pain or pressure
- Loss of speech/movement

Sympto
matic

OR

Asympto
matic



Spread

Timeline

- **31 December 2019** - China alerts the World Health Organization (WHO) about a spate of pneumonia-like cases in Wuhan
- **9 January** - The WHO says the infection is caused by a new type of coronavirus
- **10 January** - China shares the genetic code of the new virus
- **11 January** - Scientists start working on a vaccine
- **13 January** - Virus spreads abroad for the first time to Thailand
- **27 February** – First case in Nigeria by an Italian citizen in Lagos.

TOTAL CASES






Total ▼

Worldwide ▼

Confirmed
4.87M
+93,324

Recovered
1.66M

Deaths
321K
+4,452

Location	Confirmed ↓	Recovered	Deaths
 United States	1.55M +21,287	291K	91K
 Russia	300K +9,263	76,130	2,130
 Brazil	263K +13,140	100K	17,130
 United Kingdom	249K +2,711	-	35K
 Spain	232K	150K	29K

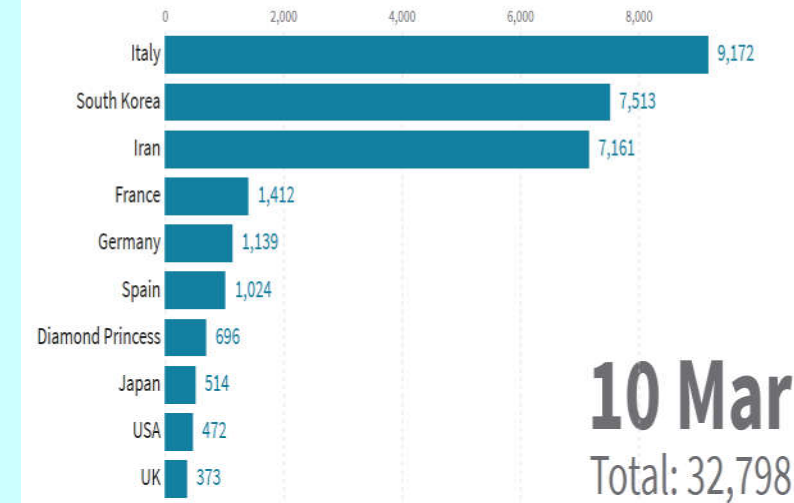
Spread

How confirmed cases of coronavirus have spread



Sources: Johns Hopkins University, European
Centres for Disease Prevention & Control

How confirmed cases have spread outside of China



World Health Organisation

BBC

Effects

a) Fall in Crude Oil demand across the globe causing Oil glut forcing a price reduction to an all time low of about 25 dollars per barrel	b) Manufacturing companies and most businesses have either closed or drastically cut production.	c) Over 302,000 people have died in the world with over 176 deaths in Nigeria.
d) Airlines operation has been grounded and most of their employees have either lost their jobs or taken pay cuts.	e) The value of the Nigerian Naira has dropped as against the dollar.	f) Over 100,000 diagnosed with Corona Virus
g) Schools and public places closed down without hope of opening any time soon.	h) Private Businesses have shut down while government Parastatals are working from home.	

Ogun State: Fight against the spread

- Creation of several Isolation centres (Iberekodo, Ikenne,
- Molecular testing laboratories (OOUTH Sagamu
- Drive through testing laboratory, Ijamido Ota
- Mobile testing facilities.



Combating the Spread in Nigeria

GUIDELINES FOR EASED LOCKDOWN

LAGOS • ABUJA • OGUN STATES
EFFECTIVE MAY 4, 2020

PUBLIC SPACES

The following are mandatory in public spaces:

- Improved face masks
- Temperature checks
- Handwashing facilities and hand sanitizers
- Physical distance of two meters
- No sport activities and mass gatherings

TRAVEL

The following are prohibited:

- Passenger flights
- Interstate travel (except essential services)

Note:
There will be mandatory supervised isolation of returnees for at least 14 days.

MARKETS & BUSINESSES

Location	Hours
Neighborhood markets	3 times a week 8am - 3pm
Banks and financial services	8am - 2pm
Government offices (Staff level 14 - 17)	8am - 2pm
Corporate offices (private sector)	8am - 2pm

CLOSED

- Schools
- Churches
- Mosques
- Clubs
- Bars
- Gardens

www.statehouse.gov.ng/covid19/
@DigiCommsNG #TakeResponsibility

Keep washing your hands
Wear a mask

- ☐ Aggressive Testing strategy
- ☐ Collaboration with both Local and International health agencies on vaccine development and testing.
- ☐ Restriction of movement/ curfews to reduce spread as well as Inter State travel ban
- ☐ Fumigation of Public places
- ☐ Enforcement of Physical distancing and use of face mask.
- ☐ Ban on social gatherings.

Management

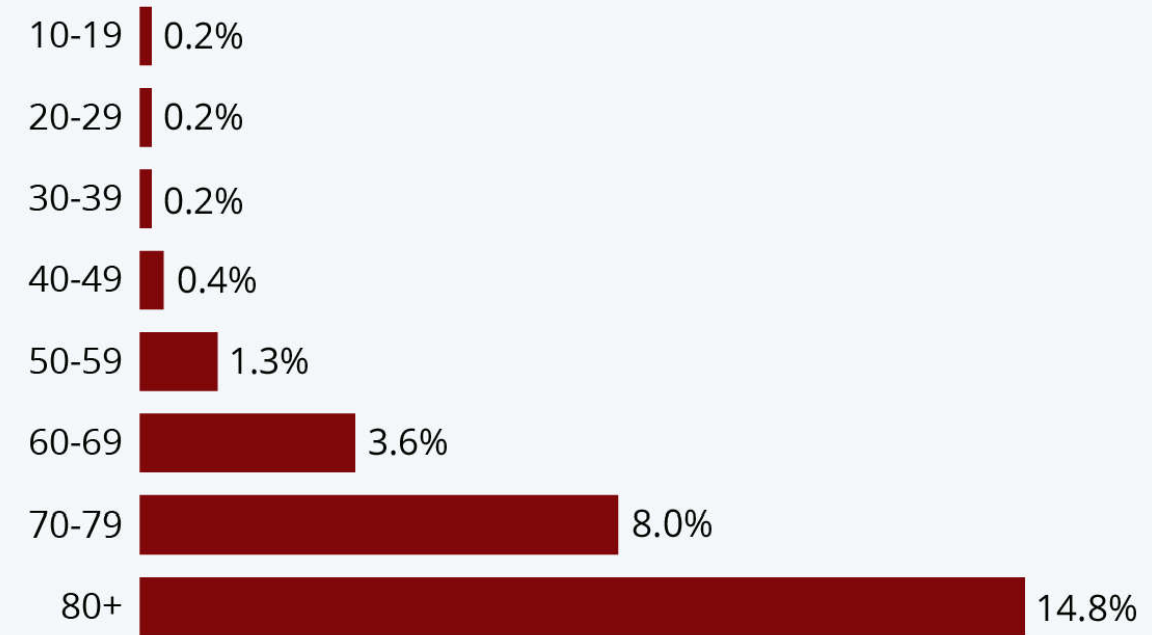
How deadly is the coronavirus?

The World Health Organization says:

- 81% develop mild symptoms
- 14% develop severe symptoms
- 5% become critically ill
- Between 1% and 2% of people who have the corona virus are dying from the disease

Study: Elderly Most At Risk From The Coronavirus

COVID-19 fatality rate by age (as of February 11, 2020)



n=44,672 confirmed COVID-19 cases in Mainland China
Source: Chinese Centre for Disease Control and Prevention



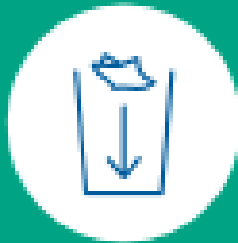
Management - prevention

How can you stop coronaviruses spreading?

If you need to cough or sneeze



Catch it
with a tissue



Bin it



Kill it
by washing
your hands with
soap & water or
hand sanitiser

You should wash hands with soap & water or hand sanitiser



After breaks
& sport
activities



Before
cooking
& eating



On arrival at
any childcare
or educational
setting



After using
the toilet



Before
leaving
home



Try not to touch your
eyes, nose, and mouth
with unwashed hands



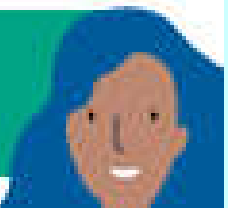
Do not share items that come
into contact with your mouth
such as cups & bottles



If unwell do not share items
such as bedding, dishes,
pencils & towels



Stop germs spreading with our e-Bug resources on hand and respiratory hygiene lesson plans for KS1, 2 and 3: campaignresources.phe.gov.uk/schools



Management - vaccines

Vaccine

The work on a new coronavirus vaccine is using newer, and less tested, approaches called **"plug and play"** vaccines. Because we know the **genetic code** of the new coronavirus, Sars-CoV-2, we now have the **complete blueprint for building that virus**.

Some vaccine scientists are lifting small sections of the coronavirus's genetic code and **putting it into other, completely harmless, viruses**.

Other groups are using pieces of raw genetic code which once injected into the body should **start producing bits of viral proteins** which the **immune system again can learn to fight**.

<https://www.bbc.co.uk/news/av/health-51305193/coronavirus-the-us-laboratory-developing-a-vaccine>

Coronavirus- Evaluation Sheet

1. Which city and country did coronavirus originate in?
2. Which place in the city did the virus originate from?
3. Which animal could be the source of the outbreak?
4. What are the symptoms of coronavirus?
5. Why can it be hard to diagnose?
6. Which country in Europe has the most cases of Corona Virus?
7. How many people have caught the Corona Virus in Nigeria?
8. Which age group of people are most at risk? Why?
9. Explain how a vaccination would work.

Challenge- You in charge of the state (or a country). What could you do to tackle Corona virus? You could think about...

Long
term

Government
Workers

Schools

Economy

Pupils

Short
term

Transportation

Private
businesses

Self
isolation