

영어

고 2



History of Vaccination

An Introduction to the diseases
and vaccination



The History of Vaccination

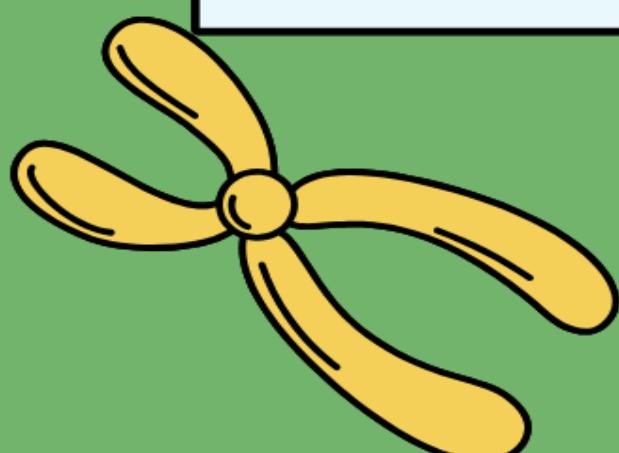


Lesson Outline

What is Vaccination and How vaccines save lives

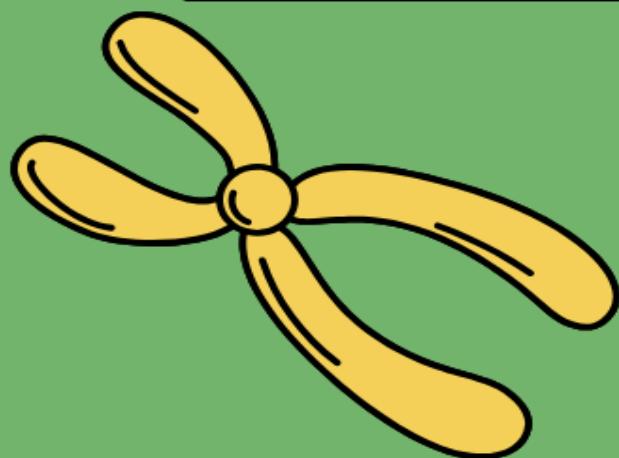
Function and Types of Vaccination

Making a video and E-book



Lesson Objectives

1. 백신의 역사에 대해 설명할 수 있다.
2. 질병예방을 위한 위생관리의 중요성을 인식할 수 있다.
3. 에듀테크 기술로 학습자료를 스스로 만들 수 있다.





Making a video about a prior knowledge

1. AI 이미지 생성하기

채널 및 역할 NEW

STAGES
 AMA
 The AI Edge
 🔒 | chilling-area

START HERE
 # | subscribe-faq
 📝 | rules
 # | newsletters
 # | web-gallery

ROOKIES
 # rookie-24
 # rookie-25
 # rookie-26
 # rookie-27
 # rookie-28
 # rookie-29
 # rookie-30

한국 남학생으로 11살쯤 되어 보이면서 안경을 쓰고 큰 눈동자를 가지고 있으며 잘생긴 얼굴을 가진 학생 - @육맥단예

U1 U2 U3 U4 ✖
V1 V2 V3 V4 ⏪

CHANDRYAN 4D technology. Horizontal 8k full HD --ar 3:2 - Variations by @Happycloud

Making a video about a prior knowledge

1. AI 이미지 생성하기

- 1) 원하는 AI 이미지를 다운받기 위해 Midjourney 나 BlueWillow에 접속한다.
- 2) 회원가입은 구글계정으로 간단하게.
- 3) 왼쪽 (newbies-숫자) or (rookie-숫자) 채널에 입장한다.
- 4) 채팅창에 (/imagine prompt) 입력한 후 자신이 다운받길 원하는 이미지를 입력한다.
- 5) 오른쪽 버튼을 클릭하여 사진을 저장한다.



Making a video about a prior knowledge

2. AI 동영상 제작하기

D-ID Create Video

Untitled video

DISCARD VIDEO GENERATE VIDEO

Type Your Script Upload Voice Audio

The history of vaccination is a fascinating journey that spans several centuries and has led to one of the most impactful advancements in modern medicine. Here's a brief overview of its evolution:

Early Observations (Pre-18th Century): The concept of vaccination traces back to ancient times when people noticed that those who survived certain diseases were often immune to subsequent infections. In ancient China and India, for example, people practiced variolation, a crude form of immunization where they would intentionally expose themselves to smallpox scabs to develop immunity.

10 words preview limit exceeded
Upgrade to a paid plan to get full script preview access

3294/3875 characters

Language: English (United States)

Voice: Jenny

Choose a presenter Generate AI presenter New

+ ADD

This screenshot shows the D-ID Create Video interface. The main area displays a placeholder image of a woman with long hair. To the right, there is a script editor with a preview of the text: "The history of vaccination is a fascinating journey that spans several centuries and has led to one of the most impactful advancements in modern medicine. Here's a brief overview of its evolution:". Below the preview, it says "10 words preview limit exceeded" and "Upgrade to a paid plan to get full script preview access". The character count is listed as "3294/3875 characters". At the bottom, there are language and voice selection dropdowns, both set to "English (United States)" and "Jenny". On the left sidebar, there are links for "Create Video", "Video Library", "API Docs", "Support", and "Pricing". At the bottom, there are buttons for "Choose a presenter" and "Generate AI presenter" (marked as "New").

Making a video about a prior knowledge

2. AI 동영상 제작하기

- 1) 동영상을 만들기 위해 Studio D-ID 사이트에 접속한다.
- 2) 회원가입은 역시 구글계정으로 간단하게.
- 3) Create Video 를 클릭한다.
- 4) + ADD 버튼을 클릭하여 다운받은 이미지를 불러온다.
- 5) 오른쪽 빈칸에는 챗GPT를 활용하여 설명하고 싶은 배경지식을 채운다.
- 6) 우측 상단 "Generate Video" 를 클릭하면 잠시 후 AI 아바타가 지문을 읽어주는 동영상이 생성된다.

Making a video about a prior knowledge

3. 동영상에 자막 생성하기
 1. vrew.com 에 접속한다.
 2. 프로그램 다운로드 후 '새로 만들기' 를 클릭한다.
 3. 영상 및 음성 파일로 시작하기에서 제작해 둔 영상을 불러온다.
 4. 언어를 선택하고 확인을 클릭하면 영상 제작 완료



Making a video about a prior knowledge

3. 동영상에 자막 생성하기

The screenshot shows a video editing interface with a toolbar at the top and a preview window on the left displaying a woman with long hair in a white shirt and grey skirt. The main area shows five subtitle tracks:

- 1** 영상편집 The history of vaccination
The history of vaccination
00:00 + 1.43초
- 2** is a fascinating journey that spans several centuries
is a fascinating journey that spans several centuries
00:01 + 2.87초
- 3** and has led to one of the most impact for advancements
and has led to one of the most impact for advancements
00:04 + 2.48초
- 4** in modern medicine [-]
in modern medicine
00:06 + 1.83초
- 5** here's a brief overview of its [-] evolution
here's a brief overview of its [-] evolution

At the bottom, there is a timeline showing 00:00 / 03:31, a 1x speed button, and a clip labeled '클립1'.

Finding the Data

Name the scientists who discovered the vaccine for smallpox.

Cite the characteristics of Covid-19 vaccine.

Explain how vaccines save lives.

Activity 1. Making a word cloud

1. 학생들은 각자 Google Arts & Culture 에 접속하여 'vaccine', 'infection', 'disease' 등 관련있는 주제를 검색한다.
2. 관심있는 텍스트를 선정한 후, 어휘학습을 위해 six word cloud 만들기 활동을 한다.
* only six word : 헤밍웨이가 여섯단어만 가지고 썼다고 전해지는 세상에서 가장 짧고 슬픈 소설(For sale : Baby shoes. Never worn)
3. wordart.com 에 접속하여 여섯단어를 선택하여 word cloud 를 만들어 본다.

The screenshot shows a digital exhibition titled "A BRIEF HISTORY OF VACCINATION". It features a painting of a man in 18th-century medical attire, holding a large glass syringe. The text on the page includes "A BRIEF HISTORY OF VACCINATION", "Centuries of life-saving science summed up", and "An ongoing project about the history of vaccine science, in partnership with". Logos for the World Health Organization, Institut Pasteur, Deutsches Museum, and MUSE are visible at the bottom.

The screenshot shows a word cloud generator interface. On the left, a table lists words with their size, color, angle, and font settings. The words listed are covid-19, Fighting, infectious diseases, saving life, KF 94 Mask, and online class. On the right, a large, colorful word cloud is displayed, oriented diagonally. The most prominent words in the center are "covid-19", "Fighting", "saving life", "KF 94 Mask", "online class", and "infectious diseases". Other smaller words like "Fighting", "saving life", "KF 94 Mask", "online class", and "infectious diseases" are scattered around the main cluster.



Activity 2. Making own vocabulary

1. "Book Creator" 에 접속(<https://bookcreator.com/>)하여 학습하고 싶은 어휘를 선택하여 자신만의 단어장을 만들어 본다.
2. Library를 개설하고 학생들에게 초대코드를 전송하여 가입하게 한다.
3. + New Book 버튼을 클릭한다.
4. 우측 상단 + 버튼을 누르고 "Text" 와 "Record" 를 이용하여 자신만의 단어장을 만들게 한다.

◀ Library Pages Undo

Cover

+

i

▶

smallpox



vaccination



disease



Skimming the text

Skim : 일명 훑어 읽기로, 모든 세부내용을 다 읽는 것이 아니라 제목과 소제목 혹은 첫 문장만을 읽고 전체의 주제와 내용을 파악하는 읽기 전략

Vaccines vs. viruses

The left image shows a 3D rendering of a virus particle, specifically a coronaviridae, with a blue and green color scheme. The right image shows two women in traditional African attire (one in white, one in yellow) holding a baby, standing in front of a sign that reads "IMMUNISATION INJECTION ROOM".

Viruses
How much do you know about viruses?

Vaccines
How much do you know about vaccination?

Enter the Covid-19 vaccine

Get to know the scientists from across the world who tackled the Covid challenge

The main image shows a scientist in a white lab coat and blue gloves working with a pipette and vials in a laboratory setting. To the right are two smaller images: one showing a woman holding a small vial, and another showing several rows of vaccine vials labeled "COMIRNATY COVID-19 Vaccine".

Mass Manufacturing a Vaccine

The Vaccine Alliance
The international consortium facilitating access to vaccines

The Path of The First Vial

Q :What is the best topic of this passage?

Q :What is the main idea of the article?

Scanning the text

Scan : 텍스트에서 특정 정보를 찾는 데 사용되는 읽기 기법. 모든 것을 읽지 않고 특정 세부사항이나 정보를 찾을 때 사용 한다. 일명 키워드 찾기로 속독 전략 중의 하나

A collage of five historical images and captions. From left to right: 1. A portrait of Louis Pasteur with the caption 'Louis Pasteur: Pioneer of the Vaccine' and 'Explore Pasteur's house'. 2. A portrait of Peter Leopold of Habsburg with the caption 'From Small-pox to Covid-19' and 'How immunization has been used to fight diseases for centuries'. 3. A portrait of the Grand Duke of Tuscany with the caption 'Grand Duke of Tuscany Fanboy' and 'Get to Know Peter Leopold of Habsburg Duke who contributed to smallpox it'. 4. A painting of a medical scene with the caption 'The Development of the Vaccine' and 'How Louis Pasteur developed the rabies vaccine'. 5. A portrait of Louis Pasteur holding a rabbit with the caption 'How Animals Help In The Fight Against Diseases' and 'From rabies to diphtheria'.

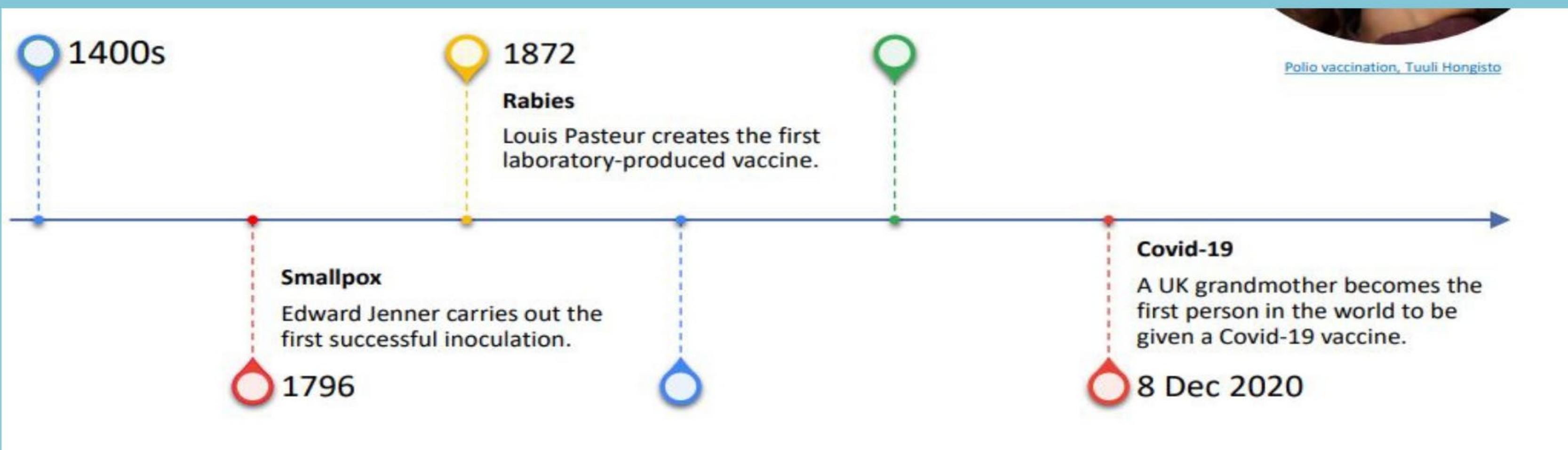
Q : Name the many kinds of vaccine you've heard

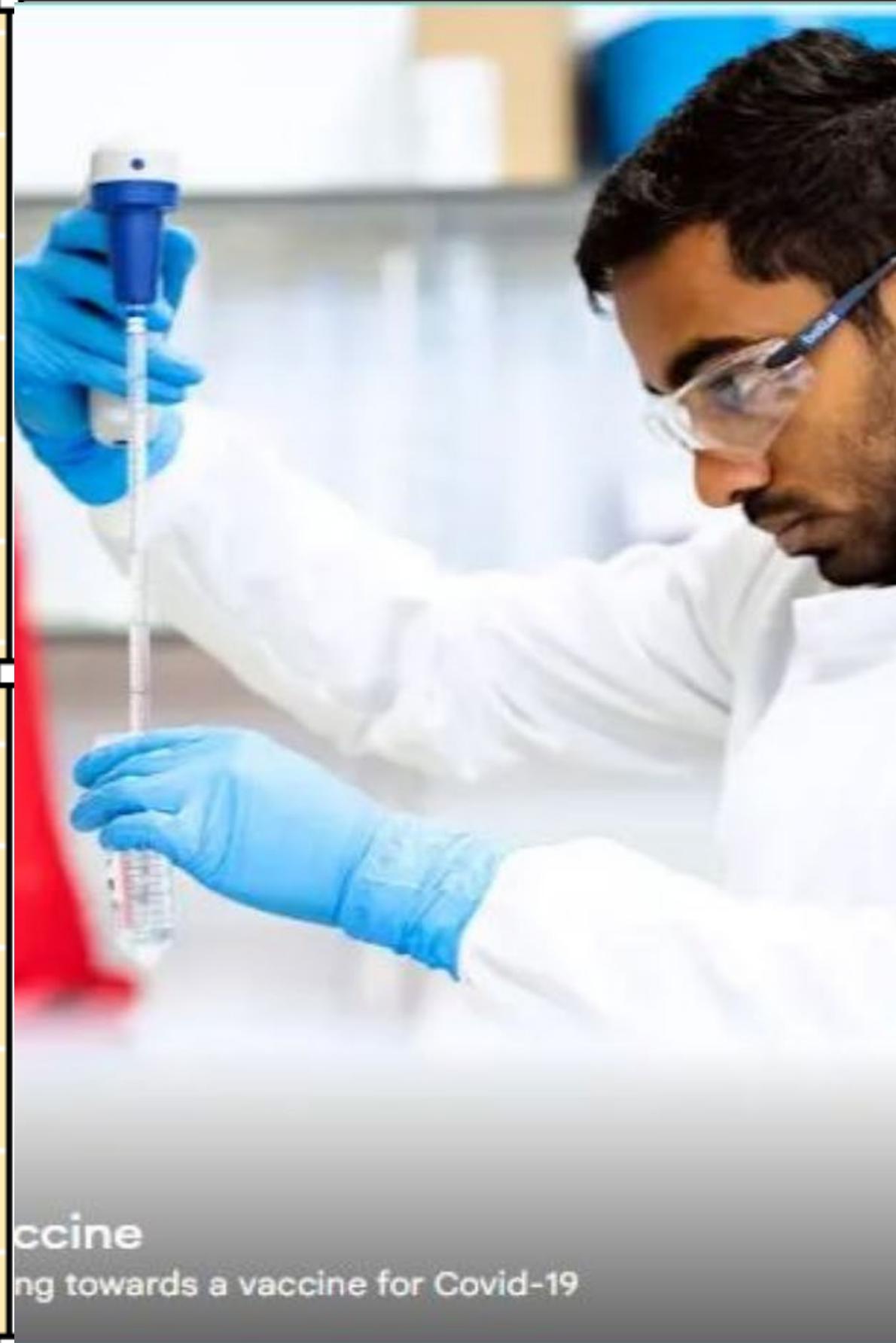
Q : Who invented the vaccine ?



Activity 3. Create a timeline showing the history of vaccines

Read a short story of vaccination and then, using the information you have learnt, make a timeline to describe the history and development of vaccines. Make sure the major events including diseases and vaccines





ccine
ng towards a vaccine for Covid-19

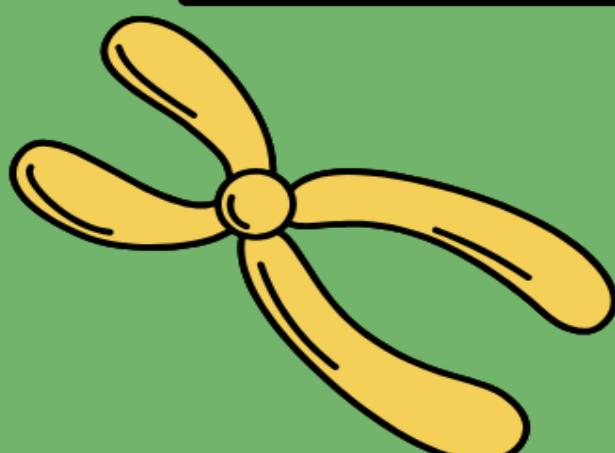
Fill in the Blanks (Formative test)

See if you can recall what you have learned from this lesson. How many blank words can you fill without going back through the pages. (if you want, go to the pages!)

1. The vials used to store the Covid vaccine are made of _____.
2. _____ was a French chemist and microbiologist who developed a vaccine for _____.
3. _____ is the method used in the 15th century where healthy people were intentionally exposed to smallpox.
4. The _____ are/is an organ that can be affected by the Covid-19 virus.
5. The _____ is an attempt by Professor Harris Makatsoris at King's college London to manufacture vaccines at a massive scale.
6. _____ can be used to support breathing and be helpful for people suffering long-term Covid symptoms.
7. Edward Jenner is famous for delivering the first _____ to inoculate 8-years-old James Phipps against _____.

Lesson Objectives

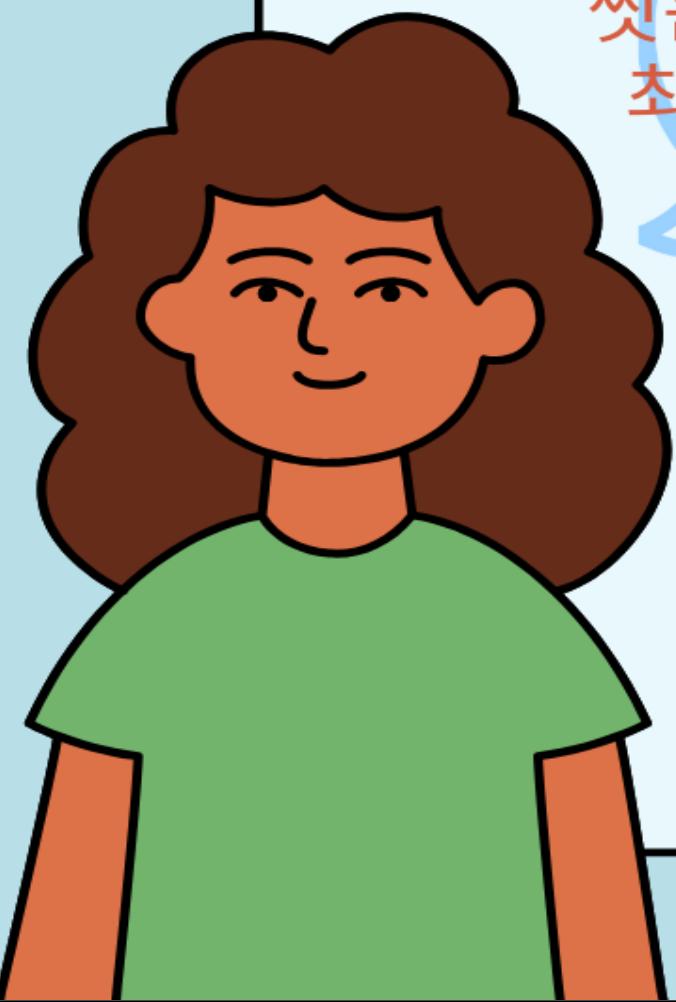
1. 백신의 역사에 대해 설명할 수 있다.
2. 질병예방을 위한 위생관리의 중요성을 인식할 수 있다.
3. 에듀테크 기술로 학습자료를 스스로 만들 수 있다.



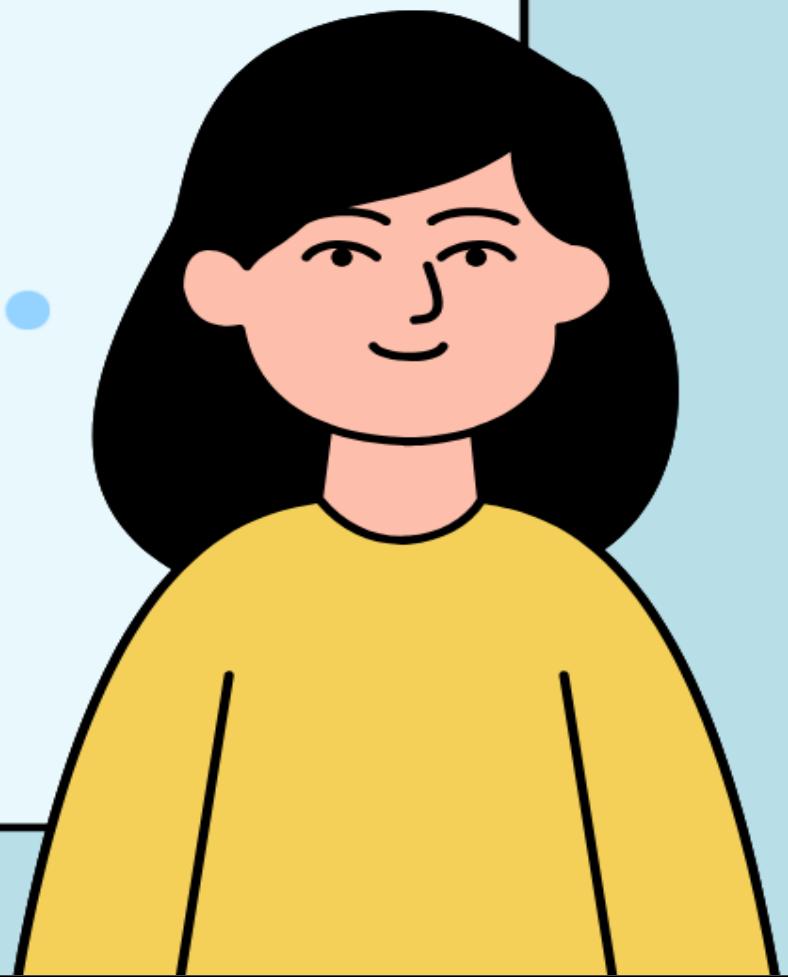
Which is better?

비누와 손세정제 둘 중 세균 억제효과가 더 좋은 것은 과연 무엇일까?

간단하지만 비누로 손
씻는게 세균을 없애는
최고의 방법이라구!



간편하게 휴대가능한 손 세
정제 하나면 O.K!





Debate activity

1. kialo-edu.com 에 접속한다.
2. 우측 상단 + New 버튼 클릭
3. 토론의 제목, 주제, 언어등을 설정하여 토론방 개설

비누와 손세정제 둘 중 세균 억제효과가 더 좋은 것은?

The screenshot shows a debate interface with the following structure:

- User Profile:** 유일 onlypaul
- Title:** Which is better? Soap or sanitizer
- Pros Section:**
 - User Profile:** 권인혁
 - Text:** It is best to wash your hands with water and soap. Gel-type antibacterial hand sanitizers contain alcohol, so when used frequently, the skin becomes dry and irritates the skin.
- Cons Section:**
 - User Profile:** 장민준
 - Text:** Sanitizers are better than soap because they are portable. The reasons why most people don't keep their hands clean include the annoyance of moving to facilities to use soap. Hand sanitizers are better to overcome these shortcomings.
- Comments:** There are two comments visible at the bottom of the screen.

Activity 1. Making a soap & sanitizer

1. 비누 만들기 키트와 손 세정제 만들기 키트를 준비하여 직접 만들어 본다.
2. 전자레인지 사용에 주의하며 환기가 잘 되는지 확인한다.
3. 자신만의 E-book 에 들어가야 하므로 만드는 과정을 사진 혹은 동영상으로 남기게 한다.
4. 비누는 굳는 시간이 필요하므로 활동시간을 고려해야 한다.



Activity 2. Verifying the virus with a Viewbox

1. 형광로션을 손에 바르고 뷰박스를 통해 오염물질을 확인한다.
2. 첫번째 비누를 사용하여 씻은 다음 잔여 오염물질이 남아 있는지 확인한다.
3. 두번째는 손세정제를 사용하여 씻은 다음 잔여 오염물질이 남아 있는지 확인한다.
4. 대부분의 경우 비누를 사용한 손이 더 깨끗한 모습임을 확인 할 수 있다.

오염된 손



손 세정제 사용 손



비누를 사용한 손



Opinion Revision activity

1. kialo-edu.com에 접속한다.
2. 이전에 개설되었던 토론방에 입장하여 자신의 의견을 수정한다.
3. 자신의 의견을 수정하거나 강화할때도 kialo-edu를 활용할 수 있다.

The screenshot shows a web-based discussion forum. At the top, it asks "Which is better? Soap or sanitizer". Below this, there are two main sections: "Pros" and "Cons".

Pros:

- 안효원 (User): 비누 만들기가 더 빠졌음 Soap is more expensive.
- 성민 (User): 비누가 좋아요 Soap is good. Why? Soap is very well good.
- 선숙 (User): Soap is so cool that nobody can't win it!
- 준성 (User): Soap is better. Because soap is used with running water. It will be effective in sterilization.
- 다인 (User):

Cons:

- 성민 (User): 잘 녹는다 Very melting, the smell is greasy.
- 안효원 (User): sonsejunge is more good.
- 승민 (User): It contains high concentrations of alcohol, so it effectively removes germs and viruses.
- 성준 (User): Ingredients are better than hand sanitizer https://m.health.chosun.com/svc/news_view.html?contid=20200302038294&ref=na

SUMMARY

The Discovery

손 세정제보다 비누로 손을 씻는 것이 세균 및 바이러스 제거에 더 효과적이다.

=> 비누로 손 씻는 간단한 행위가 위생관리에 효과적이다.

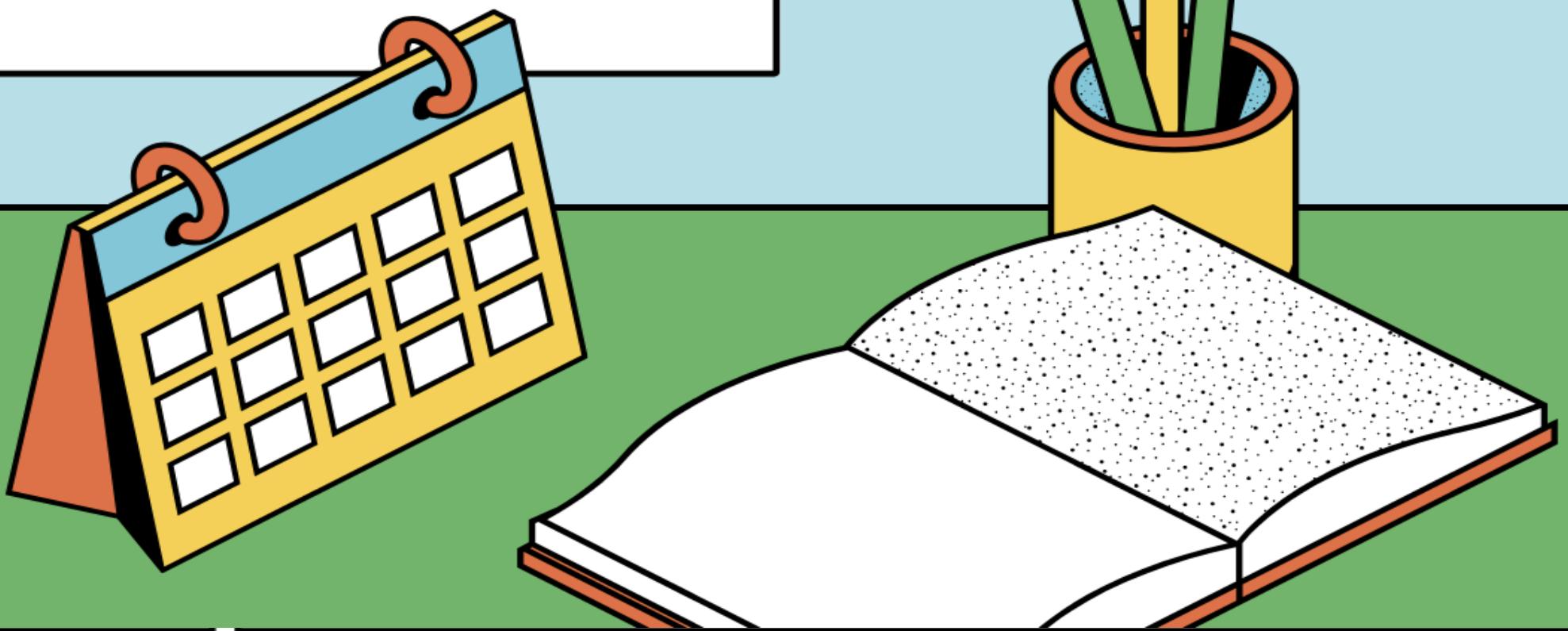
The Importance of Vaccine

인류를 질병의 위협으로부터 지켜주고 건강한 생활을 영위하게 도와주는 고마운 백신



ACTIVITY : MAKING A E-BOOK

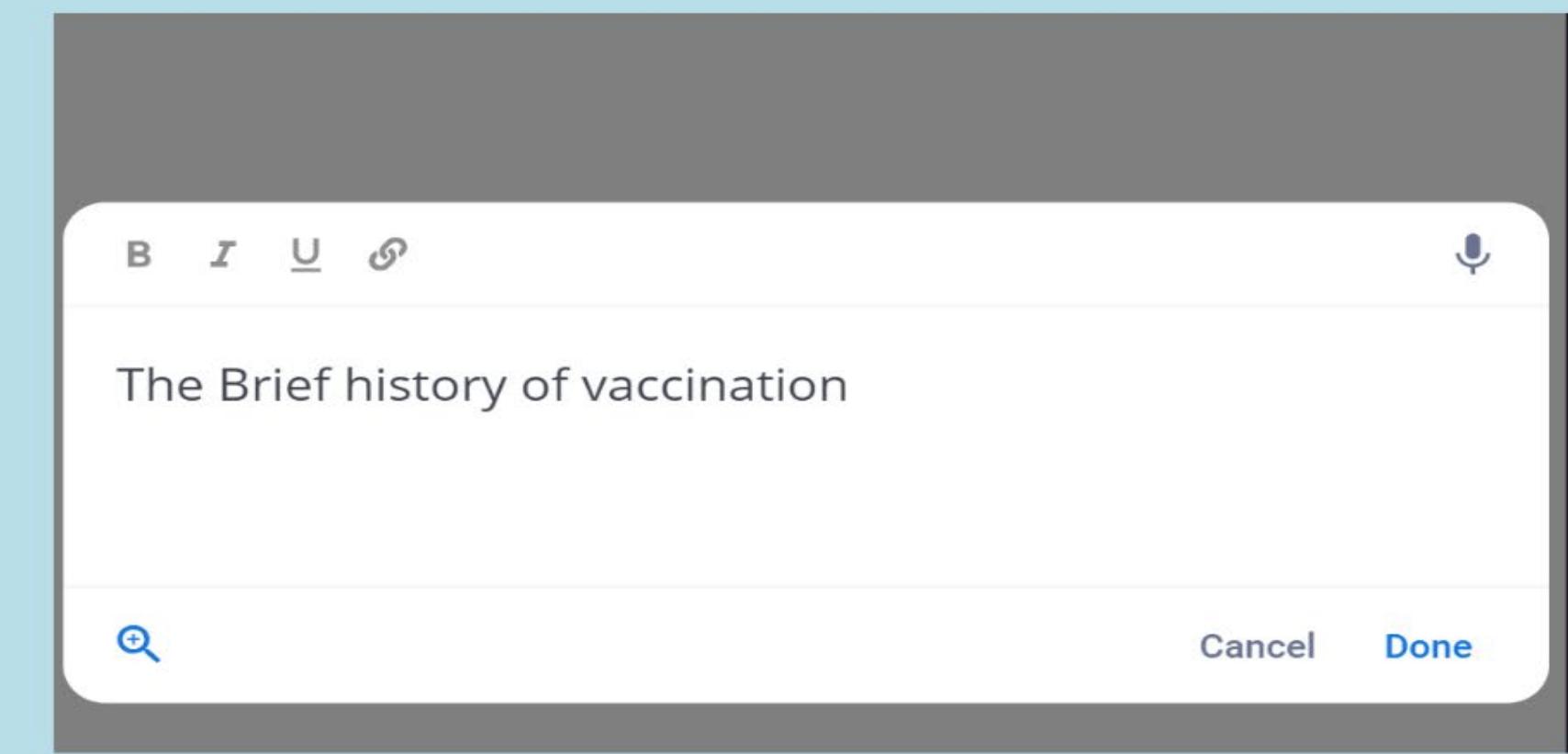
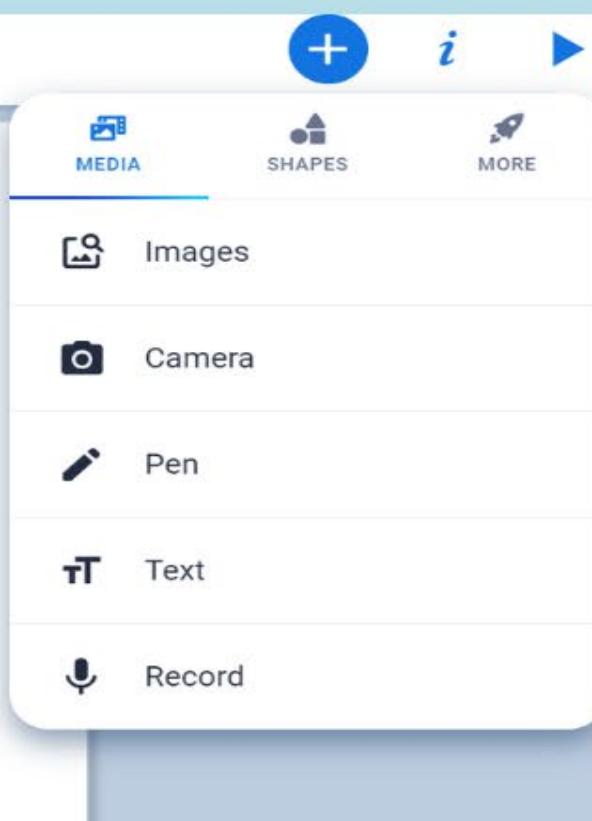
Create your own E-book with book-creator.



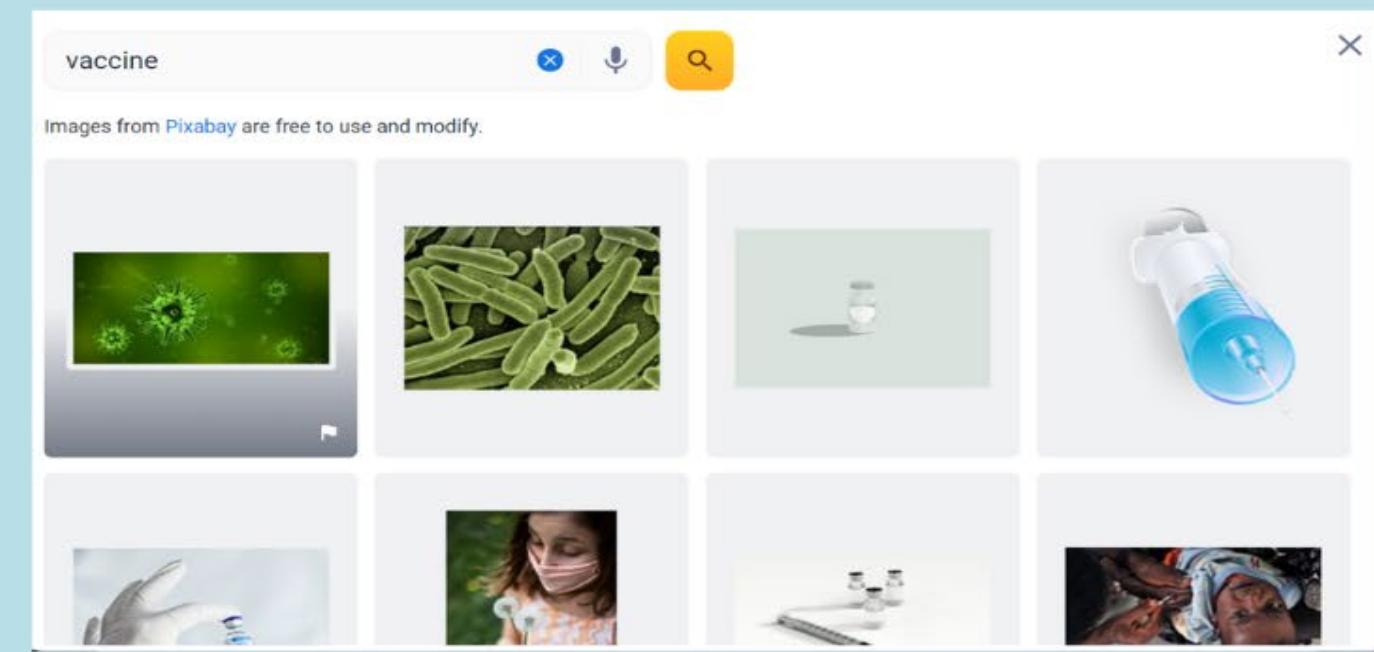
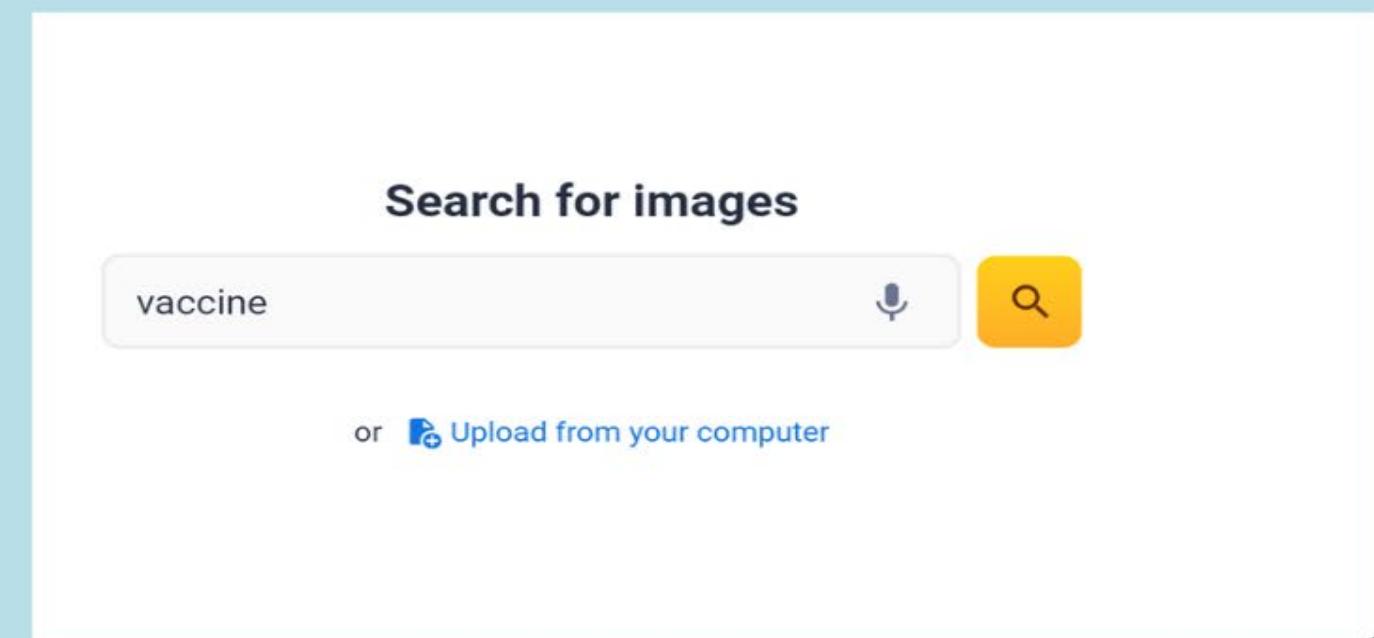
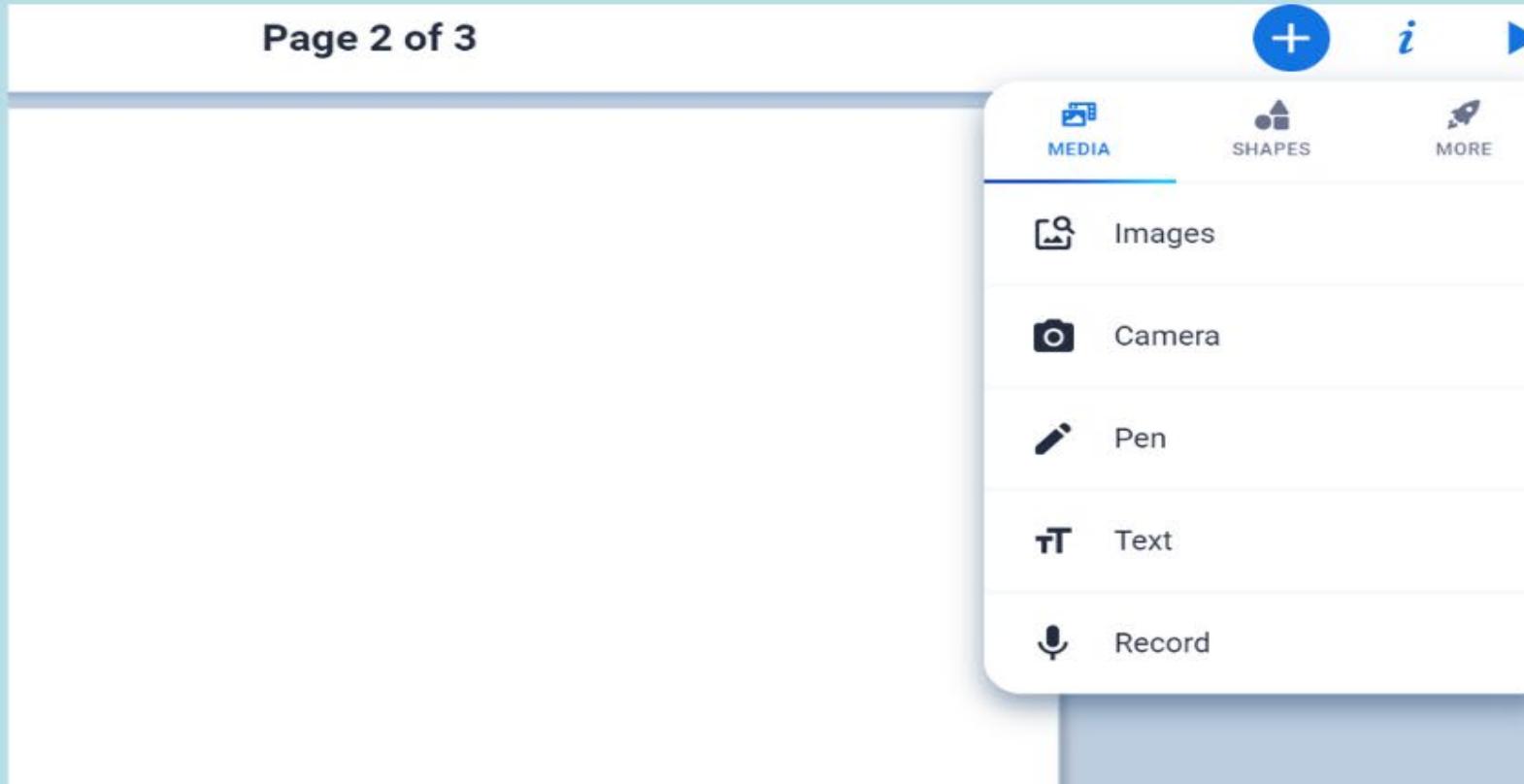


ACTIVITY : BOOK CREATOR (텍스트 삽입하기)

Page 2 of 3



ACTIVITY : BOOK CREATOR (이미지 삽입하기)





ACTIVITY : BOOK CREATOR (동영상 및 웹페이지 삽입하기)

The screenshot shows three panels of the Book Creator app interface:

- Left Panel:** Shows "Page 2 of 3". A sidebar menu is open with options: MEDIA, SHAPES, and MORE (highlighted). Below the menu, there's a "Files" section and an "Embed" section where a YouTube video thumbnail is selected.
- Middle Panel:** A modal window titled "Embed content in your book" is displayed. It contains instructions: "Add a YouTube video, a link to a web page, a Google Form, a Flip and much more. See what kinds of content you can embed." Below the instructions is a text input field containing a YouTube URL: https://www.youtube.com/watch?v=p73_IhWOyrA. At the bottom of the modal is a yellow "Confirm" button.
- Right Panel:** Shows the final result of the embed. The video thumbnail has been successfully inserted into the page, displaying the title "VACCINE HISTORY" above it.



ACTIVITY : COMPLETE BOOK CREATOR

paul's Klass
Everyone's books (28) [+ New Book](#)

Show invite code for others to join

A new book

paul's Klass
Everyone's books (28) [+ New Book](#)

Show invite code for others to join

vaccine

The Vaccine

Vaccine

The history of Vaccine



ACTIVITY : COMPLETE BOOK CREATOR

Jurassic Virus

measles
Darwin
years
disease
study
well
similar
According
early
multiple
state
identified
Shante
ribonases
current
pace
cells
disagree
disease
believe
still
Sometimes
research
ability
human
molecules
studied
called
larger
History
formed
properly
one
longer
genetic
Earth
University
destroying
new
Permian
Natural
Charles
sour
researchers
suggests

study
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multiple
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identified
Shante
ribonases
current
pace
cells
disagree
disease
believe
still
Sometimes
research
ability
human
molecules
studied
called
larger
History
formed
properly
one
longer
genetic
Earth
University
destroying
new
Permian
Natural
Charles
sour
researchers
suggests

measles
Darwin
years
disease
study
well
similar
According
early
multiple
state
identified
Shante
ribonases
current
pace
cells
disagree
disease
believe
still
Sometimes
research
ability
human
molecules
studied
called
larger
History
formed
properly
one
longer
genetic
Earth
University
destroying
new
Permian
Natural
Charles
sour
researchers
suggests

Page 5 of 9

A cleaning agent used to wash away or remove dirt or stains from the body or clothes. It is mainly made of alkali metal salts of high-quality fatty acids, and when dissolved in water, bubbles occur and it is slippery.

Page 8 of 9

Another problem is the misperception that antibacterial hand sanitizers are much better at removing bacteria than soap cleaning. In general, 99% of hand washing with soap, 98% of hand sanitizers, and 90% of hand bacteria are removed even if you just wash them with water. Therefore, if you are worried about MERS, it is much better to wash everywhere with warm water for more than two minutes using regular soap.



ACTIVITY : PUBLISH MY BOOK

W DOOK 章

The screenshot shows a comic book creation interface with several panels of a comic strip. The panels include:

- Cover:** A panel featuring a superheroine in a dynamic pose, with a speech bubble saying "VACCINATOR".
- 2-3:** A panel showing a green COVID-19 virus character with sharp fangs and a speech bubble that reads "COVINFY PARENTS COVID-19 FEATURE UGLY AND DANGER".
- 4-5:** A panel showing the superheroine running towards the virus character, with a speech bubble from the virus saying "CAT WOMAN AND VACCINATOR... BLAH BLAH BLAH, FOR SOME REASON THESE TWO BECAME FRIENDS, GOING ON AN ADVENTURE TO PREVENT THE COVIDY...".
- 6:** A panel showing the superheroine shouting "WHAT!!!" and the virus character responding "I'LL BE RIGHT THERE".
- 7:** A panel showing the superheroine running away, with the virus character shouting "BE CAREFUL!! COME TO US WE CAN PROTECT YOU!!".
- 8:** A panel showing the superheroine running away, with the virus character shouting "! THAT'S ME AT THE HELL YOU??".
- 9:** A panel showing the superheroine running away, with the virus character shouting "HELP ME!!".
- 10:** A panel showing the superheroine running away, with the virus character shouting "HI, I'M VACCINATOR".
- 11:** A panel showing a green vaccine syringe character with a speech bubble "HE IS MY FATHER, EDWARD JENNER". Below it is a small portrait of Edward Jenner.
- 12:** A panel showing a green vaccine syringe character with a speech bubble "IN 1796, HE GATHERED THE BACTERIA FROM CHICKEN POX, AND FOUND THAT CHICKENS WERE IMMUNIZED BY INJECTING OLD CULTURE BACTERIA...". Below it is a small portrait of Edward Jenner.
- 13:** A panel showing the superheroine running away, with the virus character shouting "A brief HISTORY vaccines".
- 14:** A panel showing the superheroine running away, with the virus character shouting "AND THE BACTERIA THAT WEAKENED THE".
- 15:** A panel showing the superheroine running away, with the virus character shouting "CALL US WHENEVER YOU NEED US".
- 16:** A panel showing the superheroine running away, with the virus character shouting "THANK YOU...".

A context menu is open over the top right panel, listing:

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AUTHOR My Name

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PADLET

활동이 끝난 후 나의 소감을 패들렛에 적어봅시다.

mankind, and based on that knowledge, an English book was produced. In addition, hand sanitizer and soap related to the virus were made in cooperation with team members.

20318

비디오 00:03
IMG_5614

20415 .

We've come to know about the Jurassic virus that we want to learn more about. The Jurassic virus that we know has been around for a long time has become a good knowledge for me because I like to know something new.

Next, we made soap and hand sanitizer to deal with the virus in our hands, applied it directly to our

onlypaul

Which is better? Soap or sanitizer

Pros + Cons +

20406

비디오 00:10
20230717_111638

20410

20408

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20410