

DESN2021 Information Design For Understanding
Jasmine Wong

Project 1: Visualizing a Process (20%)
Process + Final

February 2, 2021

Research

Topic - Pandemic DIY - How to Make Your Own Hand Sanitizer

How does something work?

- The essential oil will help give the sanitizer a more pleasant smell
- The aloe vera gel helps thicken the sanitizer and alcohol mix
- The Centres for Disease Control and Prevention (CDC) recommends the sanitizer to reach 60 percent, the 99% alcohol will help the overall sanitizer reach that concentration

How does one do a particular thing?

- Higher demand for hand sanitizer in times of Covid-19, if people do not have access to hand sanitizer (sold out, none at home, etc.) they can make their own to substitute while they don't have any at the time

Video demonstration (same ingredients and method as below)

https://www.youtube.com/watch?v=JQJIWV1Yy8o&ab_channel=KING5

Formula:

- 2 parts alcohol or ethanol (91-99 percent alcohol)
- 1 part aloe vera gel
- A few drops of clove, peppermint, or other essential oil

(Jagdish Khubchandani, PHD, associate professor of health science at Ball State University) <https://www.healthline.com/health/how-to-make-hand-sanitizer#how-to-make>

Step by Step:

1. Make sure the area is clean → wipe down the table/area
2. Wash your hands
3. Pour your ingredients together into a bowl
4. Using a spoon or whisk, mix the ingredients until well blended
5. Pour into desired bottle for use
6. Close the lid, and it is ready to use!

<https://www.wired.com/story/how-to-make-hand-sanitizer/>

Research

Topic - Pandemic DIY - How to Make Your Own Hand Sanitizer

- Alcohol-based hand rubs (ABHRs) are widely used in healthcare settings now to enhance hand hygiene → recommended to use a alcohol-based sanitizer even if making at home
- Drying time of 30 seconds

Greenaway, Ormandy. "Impact of Hand Sanitizer Format (gel/foam/liquid) and Dose Amount on Its Sensory Properties and Acceptability for Improving Hand Hygiene Compliance." *The Journal of hospital infection* 100.2 (2018): 195-201. Web. <https://www.sciencedirect.com.ezproxy.library.yorku.ca/science/article/pii/S019567011830375X?via%3Dihub>

- Alcohol-based sanitizers have been recognized to cause skin dryness and flaking to certain people
- Monitoring the quality control of alcohol concentrations and hand rub formula
- Hand dermatitis → Cristina Beiu → frequent hand washing can cause hand dermatitis → good hand hygiene can help prevent covid-19, however it can also cause damage to the skin (changes texture of the skin)
- Difference between methanol and ethanol use in certain alcohol-based hand rubs

Emami, Javanmardi. "Hidden Threat Lurking Behind the Alcohol Sanitizers in COVID-19 Outbreak." *Dermatologic therapy* 33.4 (2020): e13627-n/a. Web. <https://onlinelibrary-wiley-com.ezproxy.library.yorku.ca/doi/full/10.1111/dth.13627>

Inspiration/Moodboard

HISTORY OF SOCIAL WORK TIMELINE

1819 Thomas Chalmers restructures St. John's parish in Glasgow, Scotland, to exchange home visits for the poor. In addition to economic and educational support.

1864 Octavia Hill creates a social housing model to elevate one of London's poorest neighborhoods.

1869 Octavia Hill and Helen Bosworth found the first Charity Organization Society (COS) in London to improve the organization of social services.

1877 Horace Stoughton Humphreys creates America's first COS in Buffalo, New York.

1889 Jane Addams and Ellen Gates Starr open Hull House in Chicago, which becomes the most famous settlement house in the United States.

1894 Arthur Warner publishes *American Charities*, the first social welfare textbook in the United States.

1898 The first school of social work is established at the New York School of Philosophy, later becoming the Columbia University School of Social Work.

1906 Several social work programs open in New York, Boston and Hartford, Connecticut.

1915 Abraham Flexner declares that social work is not a profession due to a lack of a scientific knowledge base.

1917 Mary Richerson publishes her book *Social Diagnosis*, which is regarded as a primary text for social workers.

1919 Seventeen schools of social work in the United States and Canada combine to form an association that later becomes the Council on Social Work Education (CSWE).

1928 The Milford Conference concludes that social work is one profession with integrated knowledge and skills.

1933 President Franklin D. Roosevelt and a federal staff of social workers draft New Deal programs supporting social welfare.

1955 Seven organizations merge to create the National Association of Social Workers (NASW). Membership is limited to those organizations and individuals who are graduates from master's-level accredited schools of social work.

1956 The International Federation of Social Workers (IFSW) is established and comprises national social work professional associations.

1964 President Lyndon B. Johnson launches Great Society programs to eliminate poverty and racial injustice. Federal funding is used to train thousands of social workers and end personal shortages.

1969 Membership in the NASW is opened to social workers with qualified bachelor's degrees.

COUNCIL
AU Online
AURORA UNIVERSITY
 online.aurora.edu

History of social work initiative from the Finnish government, Oulu government and the University of Helsinki in support of social work. Directed by Marjaana Mäkelä and edited by Sanna Mäkelä. History and Evolution from John D. Alford and others in the Department of Social Work.

TRAVEL infographic

step-by-step guide to planning a trip

- 1 Destination** Research the location, climate, and local customs. Consider the time of year and any special events.
- 2 Documents** Check your passport's expiration date and visa requirements. Obtain necessary travel documents.
- 3 Planning** Research the destination, including transportation, accommodation, and activities. Create a travel itinerary.
- 4 Budget** Determine your budget and research the cost of travel, including transportation, accommodation, and food.
- 5 Accommodation** Research and book your accommodation in advance. Consider location, amenities, and reviews.
- 6 Tickets** Book your flights and transportation tickets. Consider flexible options in case of changes.
- 7 Money** Exchange your money into the local currency. Carry cash and a credit card.
- 8 Vaccination** Check if you need any vaccinations for the destination. Get them well in advance.
- 9 Insurance** Purchase travel insurance to cover medical emergencies, trip cancellations, and lost luggage.
- 10 Baggage** Pack your luggage carefully, including essentials, toiletries, and a first aid kit. Check baggage restrictions.

1. Prepare the broth by simmering bones and aromatics for several hours.
2. Cook the ramen noodles in boiling water until al dente.
3. Prepare the toppings, including sliced pork, soft-boiled eggs, and green onions.
4. Assemble the bowl by placing the noodles in a bowl, pouring the broth over them, and adding the toppings.
5. Garnish the bowl with a drizzle of soy sauce and a sprinkle of chili oil.
6. Serve the bowl immediately while the broth is hot.

AN IDEA IS BORN!

- 1** An idea is born!
- 2** Our artist takes ideas and inspiration to create sketches and artwork.
- 3** Artwork is drawn digitally.
- 4** Designs are printed on to special substrate paper. As soon as the paper is transferred to the fabric, the heat and pressure as well as ink penetrates into the fabric fibres.
- 5** Materials are cut into garment pieces. Pieces are sewn together to create a piece of ready-to-wear apparel.
- 6** Awesome garments have their way to awesome people for their next fancy running adventures.
- 7** GLORY VICTORY ADULATION

AWESOMENESS

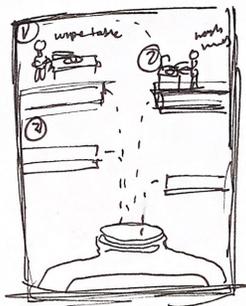
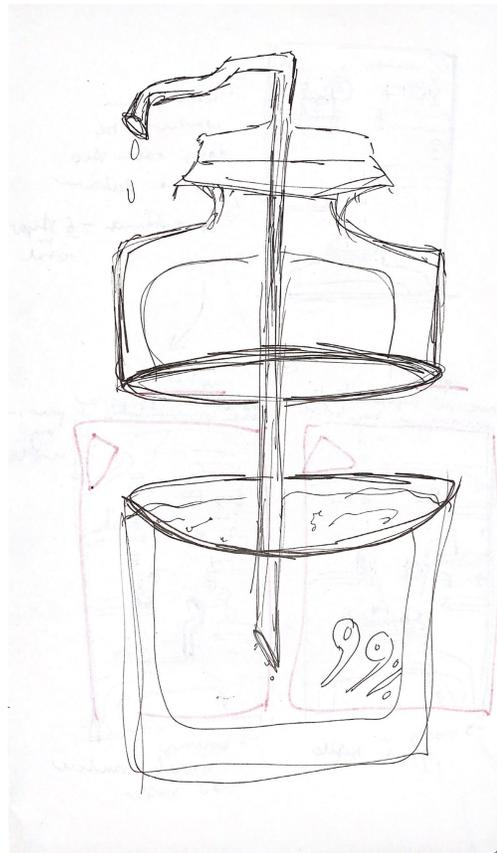
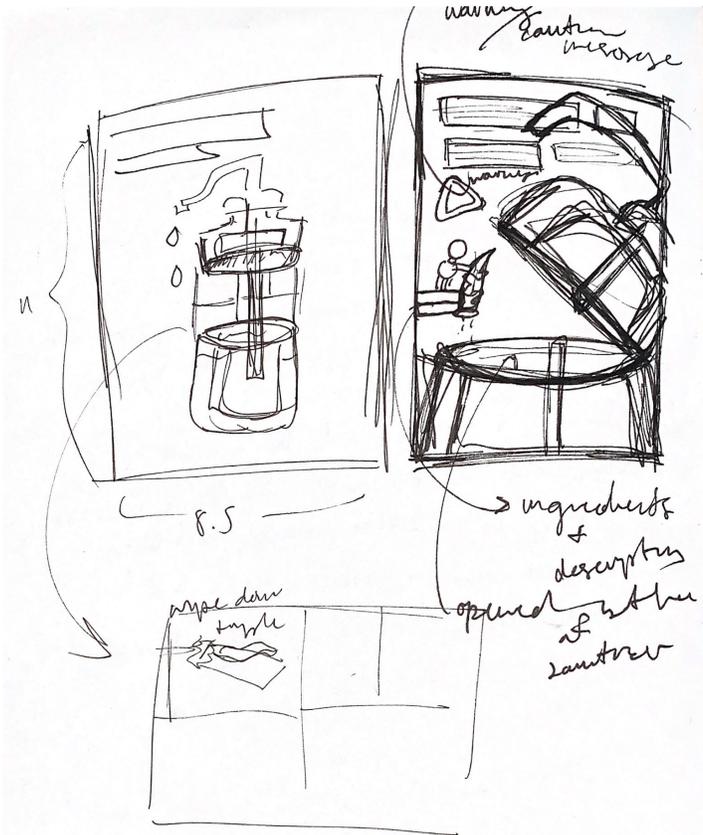
HOW TO USE HAND SANITIZER

IF SOAP AND WATER ARE NOT AVAILABLE

- 1** DISPENSE THE HAND SANITIZER ON YOUR PALM.
- 2** SPREAD THE SANITIZER AND RUB PALMS TOGETHER.
- 3** RUB EACH BACK OF THE HAND WITH OTHER HAND.
- 4** COVER ALL SURFACES UNTIL HANDS FEEL DRY (UP TO 20 SECONDS).

(illustrative approach)
 - Step by step information
 - Guidelines that this is for homemade and should not replace washing hands

Sketches



have mini workers be doing each step on a platform

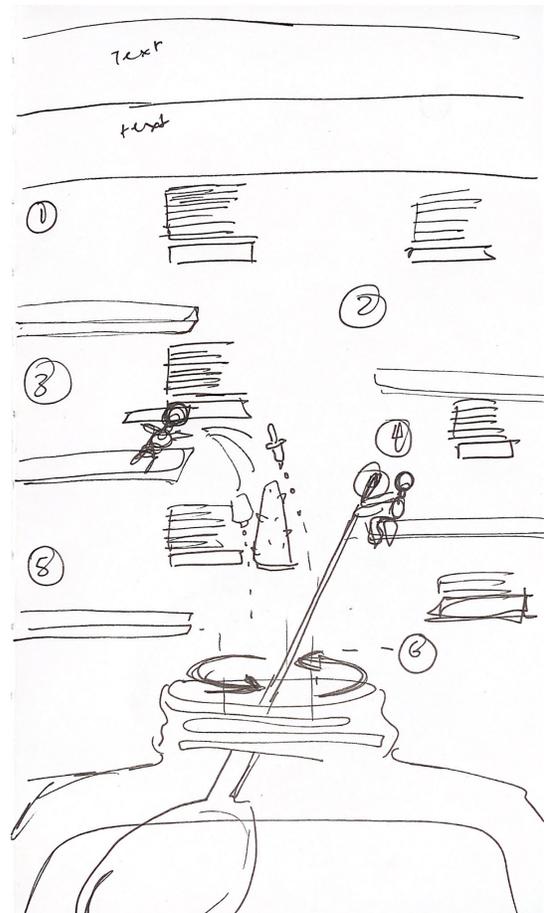
6 platforms - 6 steps in total



→ mixing in giant bottle

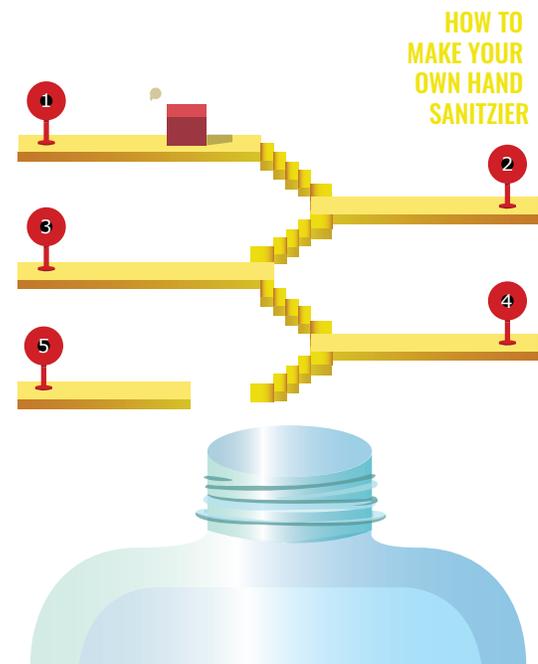
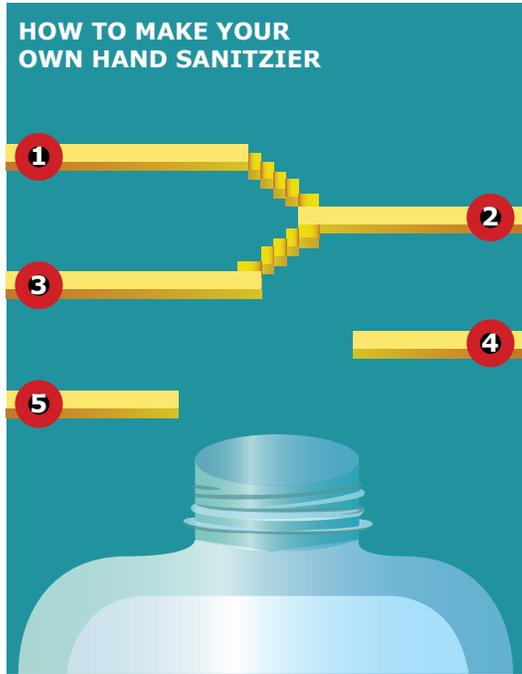


→ pouring final sampler into bottle

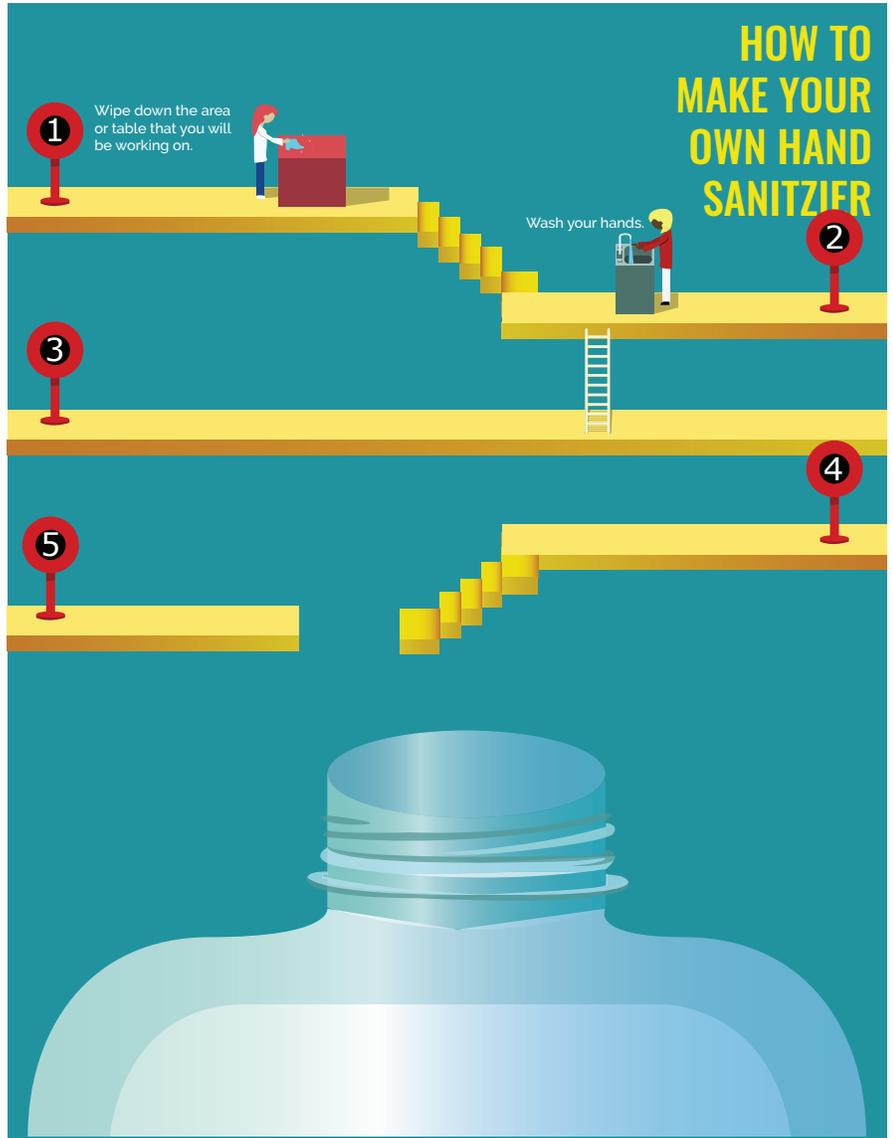


Digitalized Versions

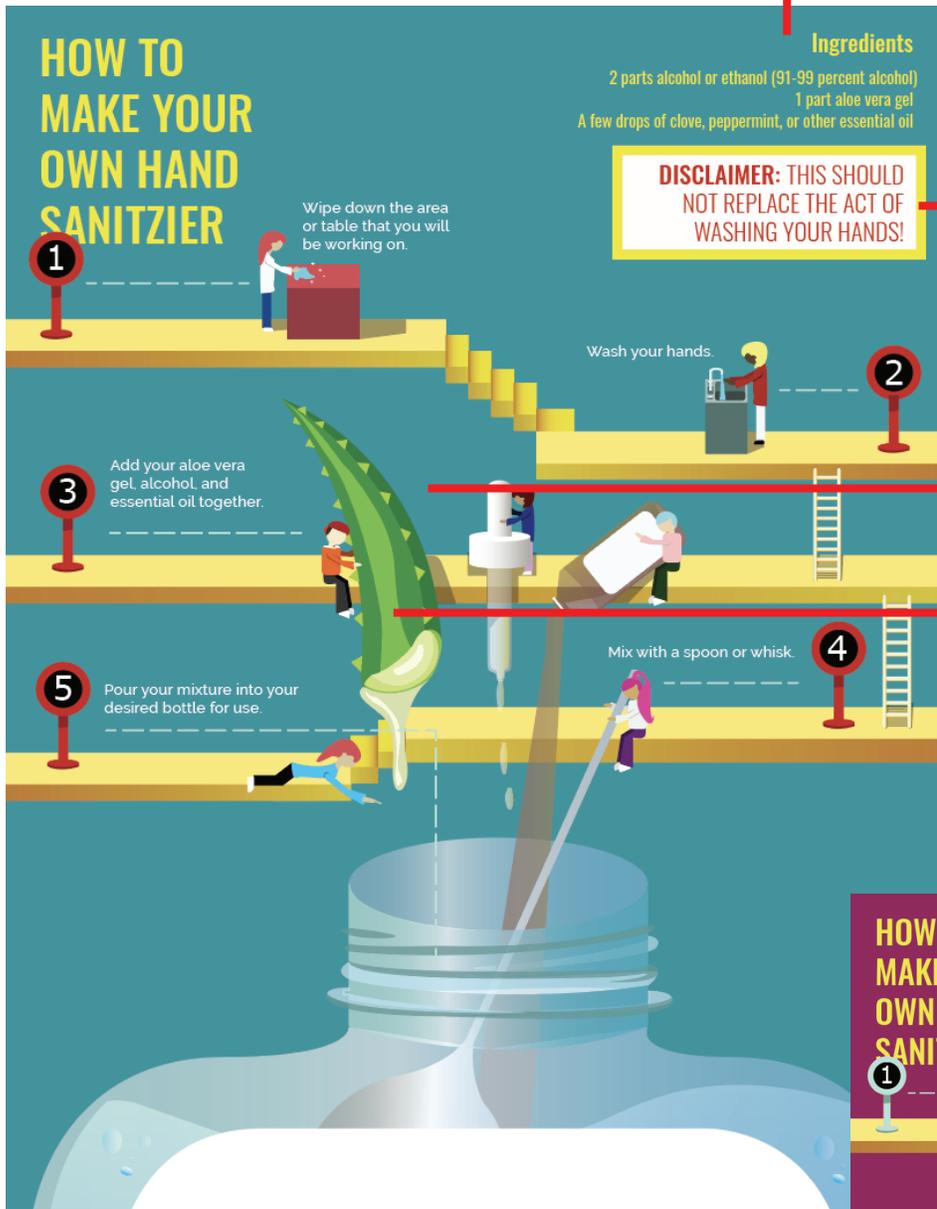
Flow variations + different numbered versions



Version I chose to proceed with



Week 3 - Feedback



incorporate the ingredients into the structure

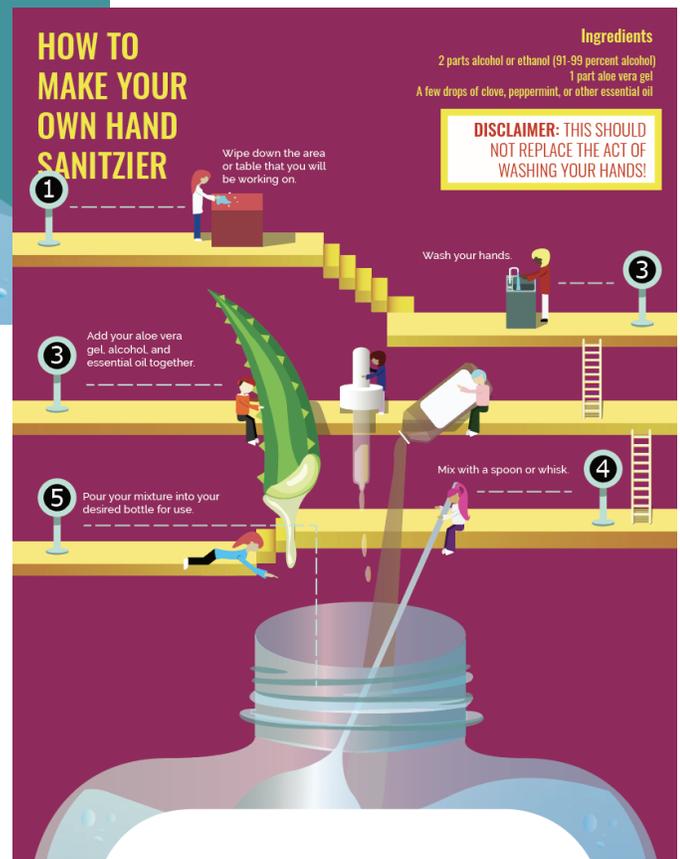
“disclaimer” can be moved onto bottle (integrated into composition/structure)

aloe leaf blocks path of step 3

add HOW to extract aloe gel

Overall Feedback:

- Ingredients feels neglected - incorporate into structure
- integrate step 3 and 5 better into the composition
- disclaimer can be incorporated better as well into the overall structure



Week 4

HOW TO MAKE YOUR OWN HAND SANITIZER

Ingredients
2 parts alcohol or ethanol (91-99 percent alcohol)
1 part aloe vera gel
A few drops of clove, peppermint, or other essential oil

Wipe down the area or table that you will be working on.

- 1 Wash your hands.
- 2 Add your aloe vera gel, alcohol, and essential oil together.
- 3 Mix with a spoon or whisk.
- 4 Pour your mixture into your desired bottle for use.

Trim the pointy edges of your aloe leaf. Cut the leaf into small sections. Squeeze out your aloe gel.

If you do not have an aloe leaf, store bought aloe gel works too!

DISCLAIMER: THIS SHOULD NOT REPLACE THE ACT OF WASHING YOUR HANDS!



How to extract aloe vera gel from a leaf

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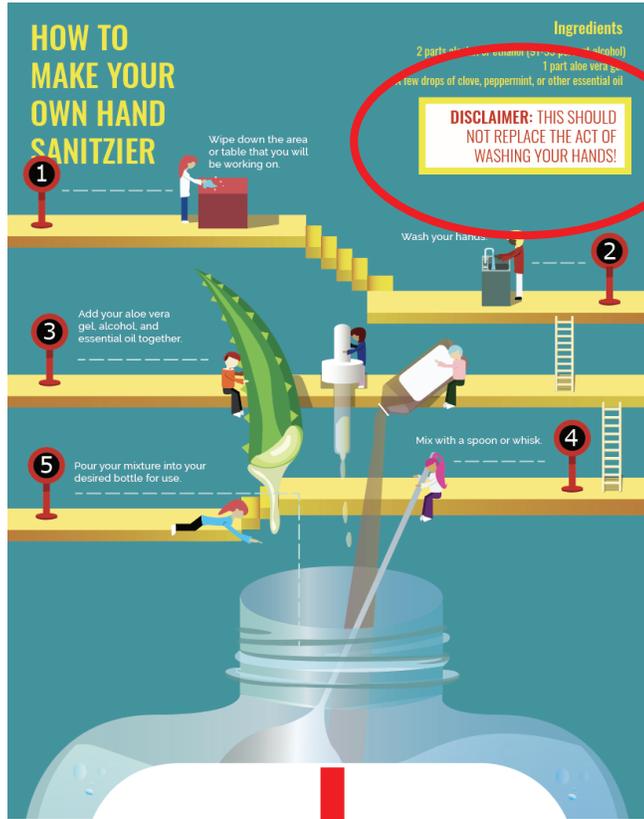
Trim the pointy edges of your aloe leaf

Cut the leaf into small sections

If you do not have an aloe leaf, store bought aloe gel works too!

Squeeze out your aloe gel.

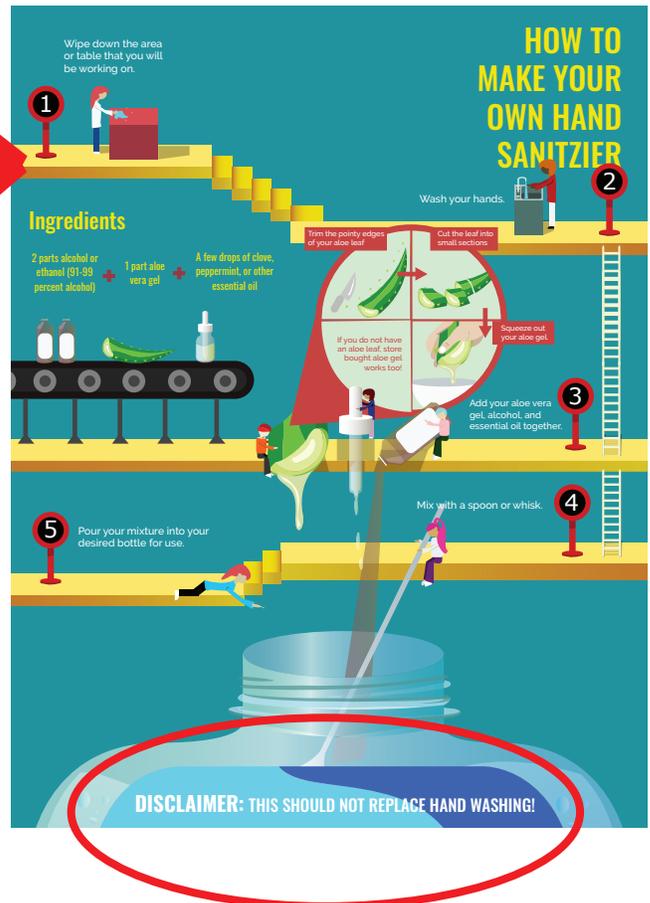
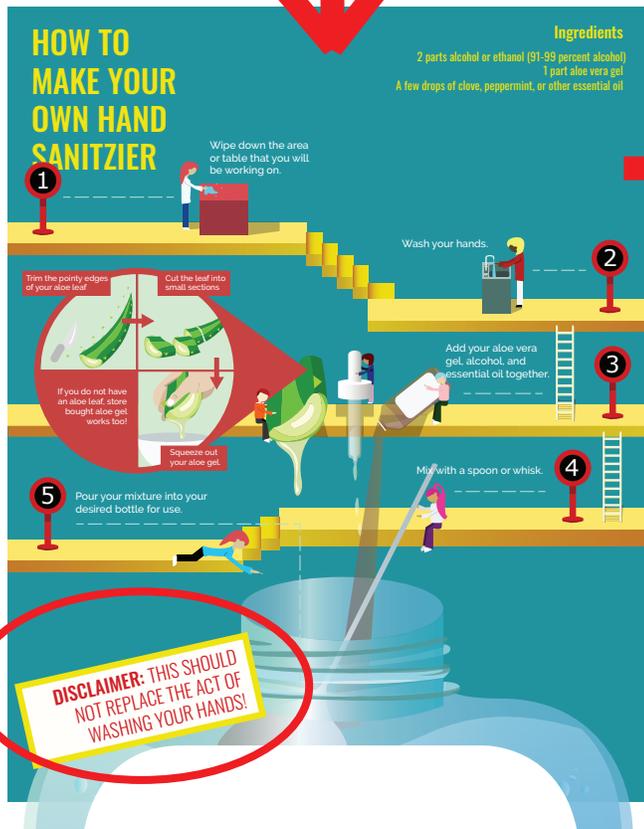
Week 4



Placement of Disclaimer message

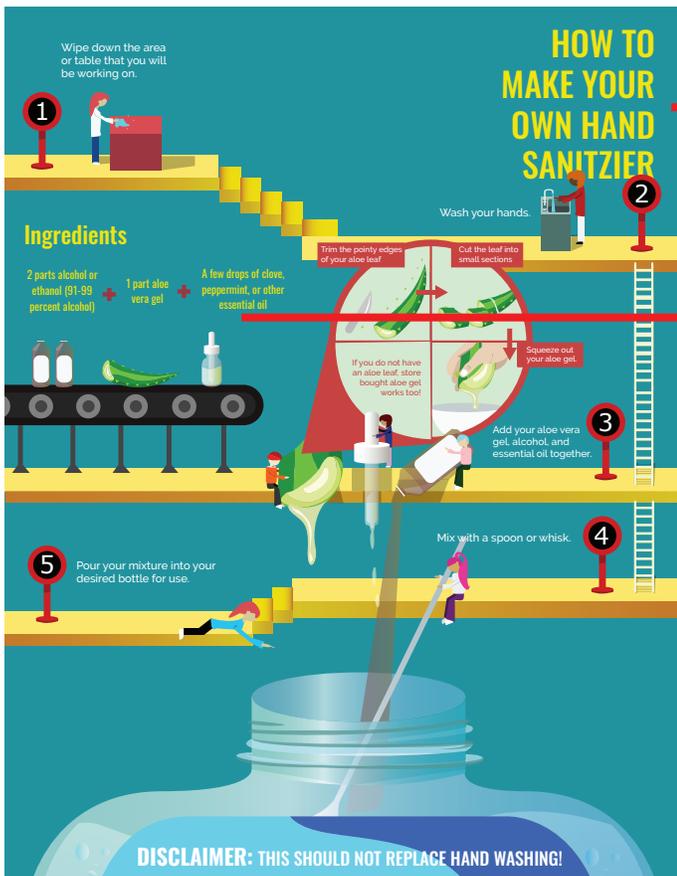
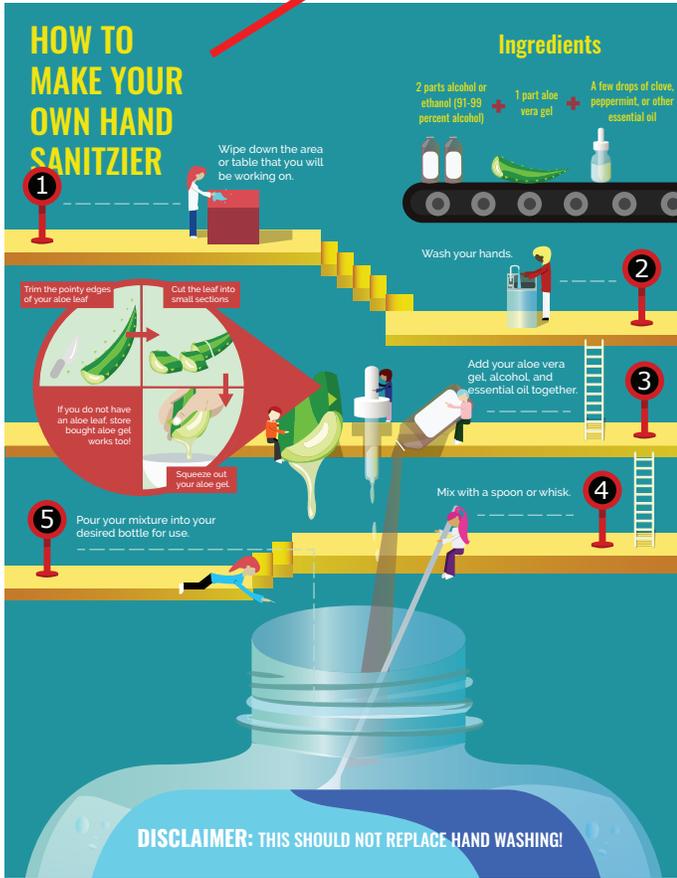
Overall Feedback:

- Ingredients feels neglected - incorporate into structure
- integrate step 3 and 5 better into the composition
- **disclaimer can be incorporated better as well into the overall structure**



Week 4

Heading placement



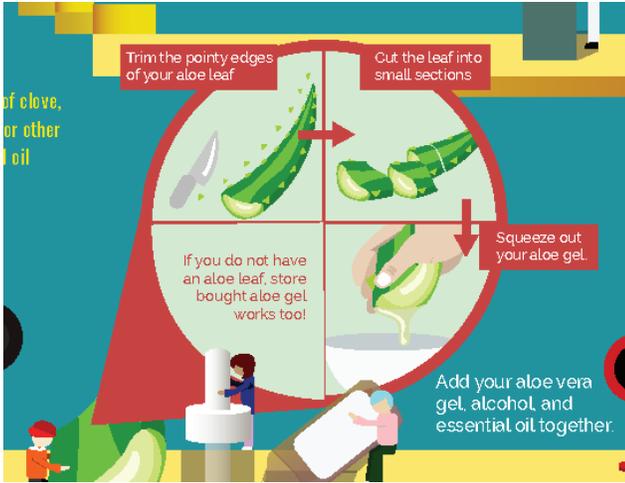
Heading placement

Ingredients list switched below step 1

Placement for ingredients list + incorporating it onto a conveyor belt

Week 4

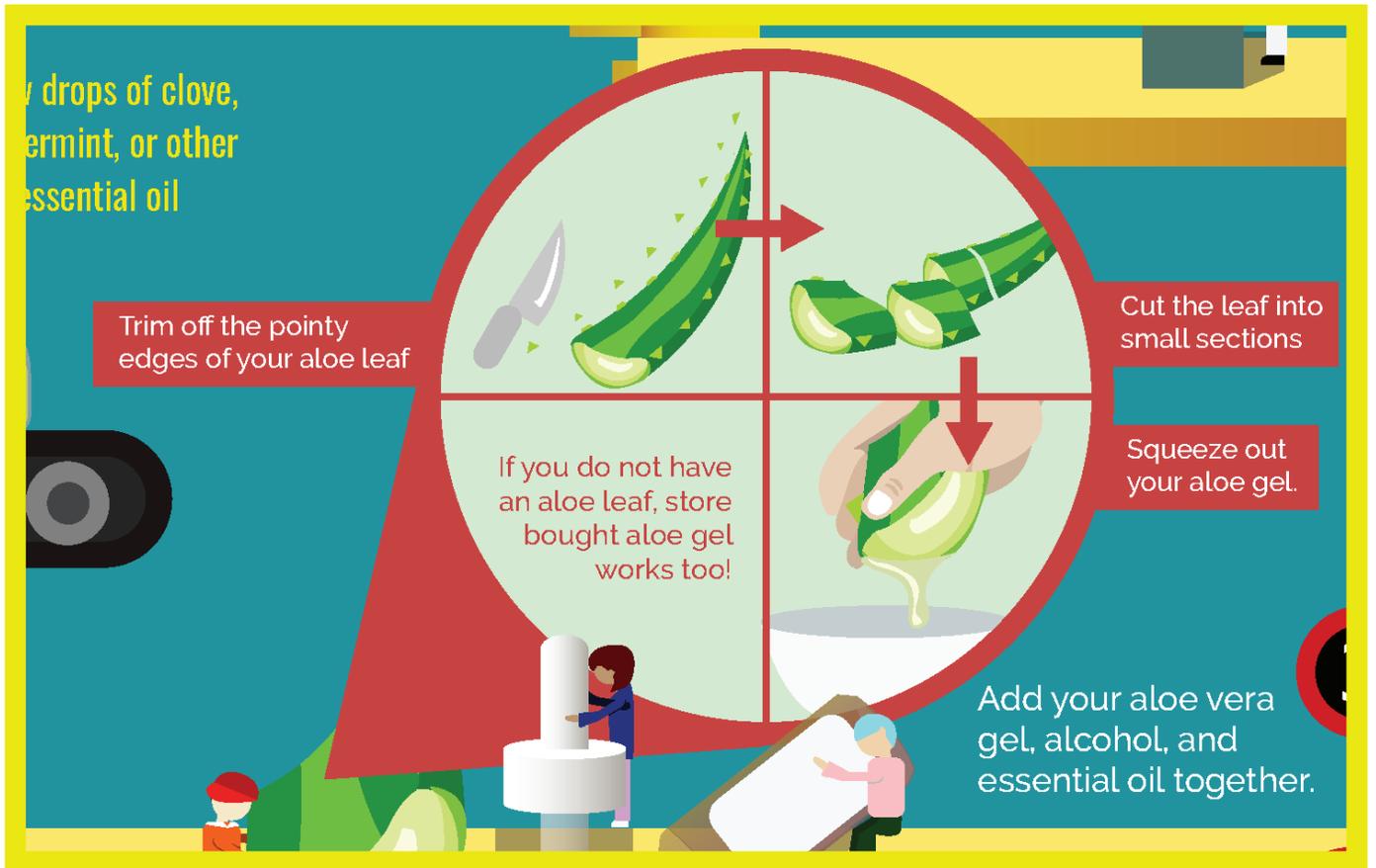
Text placement on aloe vera gel extraction tutorial bubble



version 1



version 2



Final Version

Final Infographic

HOW TO MAKE YOUR OWN HAND SANITIZER

1

Wipe down the area or table that you will be working on.



2

Wash your hands.



Ingredients

2 parts alcohol or ethanol (91-99 percent alcohol)

+

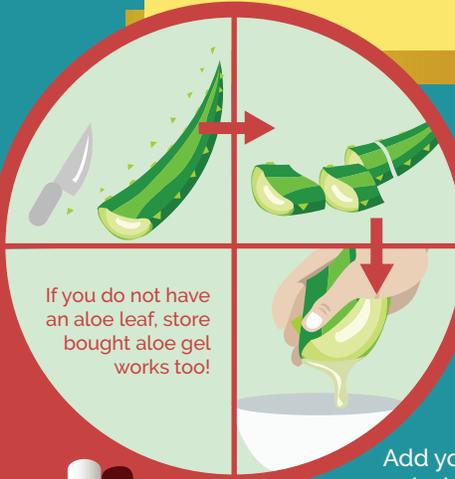
1 part aloe vera gel

+

A few drops of clove, peppermint, or other essential oil



Trim off the pointy edges of your aloe leaf



Cut the leaf into small sections

Squeeze out your aloe gel.

3

Add your aloe vera gel, alcohol, and essential oil together.



Mix with a spoon or whisk.

4

5

Pour your mixture into your desired bottle for use.



DISCLAIMER: THIS SHOULD NOT REPLACE HAND WASHING!