

Social Awareness Campaign Project



BACKGROUND

Social awareness campaigns can have a powerful effect on the viewer, as they combine information and education with visual and audio elements to bring awareness and change to a community issue. The first steps in the creation of an awareness campaign are to understand the problem and identify the audience that is being impacted negatively. This project will focus on public healthcare and the inequality that some groups face when seeking medical care and finding access to information about their own health.

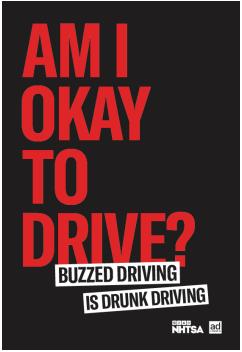
The term inequity means "a lack of fairness or justice." From a presence in research, to a lack of trust in medicine, to availability of vaccines and treatment, many people of color and other disadvantaged groups in the United States and globally face inequity as they seek medical treatment for disease. In this unit you will learn not only how vaccines fight disease, but also how they are developed, tested, approved, and distributed to the public. In this process, you will discover some of the inequities in the healthcare system and why there is a lack of proper medical care and support for disadvantaged people.

Examples of Social Awareness Campaign Artifacts

PROJECT SUMMARY

You are part of a group that is tasked with creating a social awareness campaign to inform and influence a community that struggles with equity in health care. The campaign will focus on an infectious disease facing the community. Your social awareness campaign should address issues related to disparities in healthcare and access to treatments or prevention associated with your disease. In your role as a project manager, community education specialist, web design specialist, or media specialist, you will choose a community profile. You will work with your group to research information about the challenges the community faces related to disease and health-related issues. The group will create a website that will serve as the platform for your social awareness campaign. The website will provide community members with education about infectious diseases, treatments, health care availability, and data on disparities in health care for their community. An informative ad or infographic, a PSA video calling community members to action, and a mock social media outreach for communication will be added to the campaign website.









Proposal Requirements

Research for the project must include:

- 1 Definition of an infectious disease vs. a chronic disease
- 2 Comparison of a bacterial (antibiotic) vs. a viral treatment (a vaccine)
- 3 Explanation of how vaccines work
- 4 Summary of the process of how medicines are made and released
- 5 Data on prevalence of infectious disease in your community with a separation of various ethnic or socioeconomic groups (if available)
- 6 Data on vaccine and treatment efficacy
- 7 Information, including websites, on where clinics and treatment might be available in the community

The informative ad or infographic must include:

- 1 A clear topic and message that is conveyed in a graphic way
- 2 Incorporation of data to support the topic from appropriate and credible sources
- 3 Pictures or graphics to support the data

The PSA video must include:

- 1 Background information on inequity in healthcare in disadvantaged communities that helps to explain why this is an important issue related to human health
- 2 A clear message for a specific target audience; it may include a slogan or catchphrase
- 3 An engaging and appropriate message for the target audience

The social media outreach must include:

- 1 A mock social media profile with all parts completed in an appropriate and relevant way
- 2 Informative postings, pictures, and comments that convey data and the message of the project to the target audience

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Due Date		

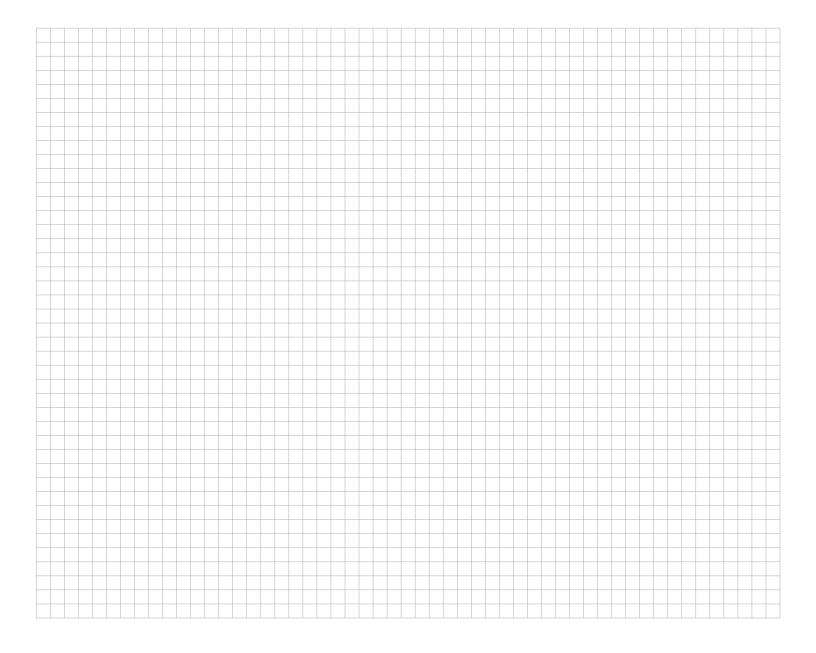
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Engineering Design Process Journal

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Step 2: Brainstorm

Discuss initial ideas for your campaign with your group. In the space provided, create a concept map, flow chart, or other type of graphic organizer showing connections among infectious disease and issues of health care inequity in your chosen community. How will each piece of the campaign inform and inspire?



Engineering Design Process Journal Step 1: Define the Step 2: Step 6: Step 4: Step 5: Step 7: Step 8: Step 9: Step 10: Step 11: Step 12: Research Identify Make a Model Test and Modify Brainstorm Explore Select an Develop Refine the Communicate Problem and Generate Criteria Possibilities the Design and Present Processes Approach or Prototype Evaluate Design Ideas and Specify Proposal Design Using for Market and Results Constraints Specifications Step 3: Research and Generate Ideas **Resource List**

In the table below, record possible questions you need to answer to gather more information prior to committing to one of your ideas. What resources are available to assist you in answering your questions?

Possible Questions Generate a list of specific questions that need to be answered.	Research Results	Any Additional Design Ideas Generated During Research Notes or sketches

Question Prompts

- What additional information might be helpful to know about your chosen community?
- Has the problem of inequity in healthcare been addressed previously? If so, what was not effective or what allows the problem to continue?
- Who is the target audience for this campaign?
- What data resources might be helpful when creating the campaign?

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What are some examples of inequity in communities faced with the spread of infectious disease?	

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Engineering Design Process Journal Step 1: Define the Step 2: Step 4: Step 6: Step 9: Step 5: Step 7: Step 8: Step 10: Step 11: Step 12: Brainstorm Research Identify Make a Model Test and Modify Explore Select an Develop Refine the Communicate or Prototype Problem and Generate Criteria Possibilities the Design Evaluate and Present Processes Approach Design Ideas and Specify Proposal Design Using for Market and Results Constraints Specifications **Lesson Connections LESSON 4: New Production Methods** Use the capture sheets and information learned from this lesson to answer the following questions: How are DNA and RNA similar? How are they different? What role does mRNA play in a cell and how can this be used in medicine and biotechnology? What type of genetic material do viruses contain? Are they all the same?

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Lesson Connections

LESSON 5: Manufacturing Medicine

Use the capture sheets and information learned from this lesson to answer the following questions:

what is the connection between cells and viral replication?
What is the connection between vaccines, viruses, and antigens?
How do vaccines work to prevent infectious disease?

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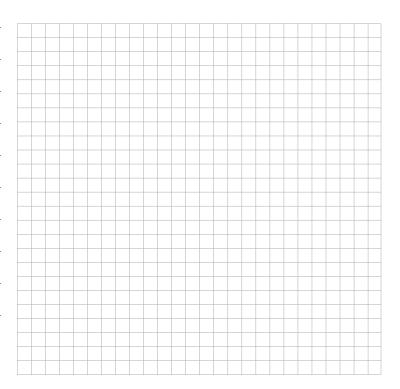
Engineering Design Process Journal Step 1: Define the Step 2: Step 3: Step 5: Step 6: Step 7: Step 8: Step 9: Step 10: Step 11: Step 12: Brainstorm Research Identify Explore Select an Develop Make a Model Test and Refine the Modify Communicate or Prototype Problem and Generate Criteria Possibilities Approach the Design Evaluate Design and Present Processes for Market and Results Ideas and Specify Proposal Design Using Constraints Specifications **Step 4: Identify Criteria and Specify Constraints** What are specific criteria and constraints for your chosen innovation challenge? Criteria **Constraints** Potential Materials Needed

Engineering Design Process Journal

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Step 5: Explore Possibilities

Step 3. Explore rossibilities
Review your ideas from Steps 2 and 3 of the design process. Explore some of your ideas in more detail. Record your results in the space provided. Possible results can reflect testing, experiments, simulations, peer review, etc. Be sure to include any data collected or group discussion and feedback.



Engineering Design Process Journal

Step 1:	Step 2:	Step 3:	Step 4:	Step 5:	Step 6:	Step 7:	Step 8:	Step 9:	Step 10:	Step 11:	Step 12:	
Define the	Brainstorm	Research	Identify	Explore	Select an	Develop	Make a Model	Test and	Refine the	Modify	Communicate	
Problem		and Generate	Criteria	Possibilities	Approach	the Design	or Prototype	Evaluate	Design	and Present	Processes	
		Ideas	and Specify			Proposal		Design Using		for Market	and Results	
			Constraints					Specifications				

Step 6: Select an Approach

Use the following decision matrix to assist in selecting one of your ideas for further development. To use the tool, complete the following steps:

- 1 Enter the criteria and constraints of the project in the first column.
- 2 Use a numeric value to rate each solution against the criteria or constraint. (2 = totally meets the requirement, 1 = somewhat meets the requirement, 0 = does not meet the requirement)
- 3 Total the columns and circle the highest score.

Criteria or Constraint	Sketch/Idea 1	Sketch/Idea 2	Sketch/Idea 3
Other criteria: A single rating for your own "nice-to-have" desirable criteria and universal design criteria (such as <i>Robustness, Aesthetics, Skill Required, Safety):</i>			
Total			

Engineering	; Design Pro	cess Journal									
Step 1: Define the Problem	Step 2: Brainstorm	Step 3: Research and Generate Ideas	Step 4: Identify Criteria and Specify Constraints	Step 5: Explore Possibilities	Step 6: Select an Approach	Step 7: Develop the Design Proposal	Step 8: Make a Model or Prototype	Step 9: Test and Evaluate Design Using Specifications	Step 10: Refine the Design	Step 11: Modify and Present for Market	Step 12: Communicate Processes and Results
Step 7: De	evelop the	Design Pro	posal								
need to de campaign.	evelop a pla Some of t	has decide an to create hese compo t. Your solu s:	your socia onents will	al awarenes come in at	different						
includ 2 Statis relate health inform 3 A grap resear and ed Inform	ing inequit tics and da d to inform neare, as w nation can phic organia rch, data, a ducate you nation expl	rmation on y in healthdata showing lation, treadell as case address the zer showing and campaign chosen coaining why	the prevalument, and studies illuses disparishow you want to me the community.	lence of dis access to strating ho ties. vill connect ents to inf	sparities bw t luence inequity.						
_		ted into the the teache			ubmitted						

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Problem		and Generate	Criteria	Possibilities	Approach	the Design	or Prototype	Evaluate	Design	and Present	Processes
		Ideas	and Specify			Proposal		Design Using		for Market	and Results
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Step 8: Make a Model or Prototype

In the space below, insert your sketch of your website sitemap and the storyboard of the PSA video (from Lesson 8—the social awareness campaign project).

Step 1:	Step 2:	Step 3:	Step 4:	Step 5:	Step 6:	Step 7:	Step 8:	Step 9:	Step 10:	Step 11:	Step 12:
Define the Problem	Brainstorm	Research and Generate Ideas	Identify	Explore Possibilities	Select an Approach	Develop the Design Proposal		Test and Evaluate Design Using Specifications	Refine the Design	Modify and Present for Market	Communicat Processes and Results
Evaluate y	your social	aluate Designawareness of the string your ides	campaign c	design usin	g		you most i r testing an			about your	design
nd the re hoice, in	esults. Test nage use, c	document tl ting can be olors, etc. Performed				Test Res	ults				
Descripti											
escripti											

Step 1:	Step 2:	Step 3:	Step 4:	Step 5:	Step 6:	Step 7:	Step 8:	Step 9:	Step 10:	_ Step 11:	Step 12:
Define the Problem	Brainstorm	Research and Generate Ideas	Identify	Explore Possibilities	Select an Approach	Develop the Design Proposal	Make a Model or Prototype		Refine the Design	Modify and Present for Market	Communicat Processes and Results
Step 10:	Refine the	Design									
Specifica	tions result	Test and Eva ts in the pre your design	vious step		у						

Step 1: Define the Problem	Step 2: Brainstorm	Step 3: Research and Generate Ideas	Step 4: Identify Criteria and Specify Constraints	Step 5: Explore Possibilities	Step 6: Select an Approach	Step 7: Develop the Design Proposal	Step 8: Make a Model or Prototype	Step 9: Test and Evaluate Design Using Specifications	Step 10: Refine the Design	Step 11: Modify and Present for Market	Step 12: Communicate Processes and Results	
Step 11: Modify and Present for Market What changes (if any) did you make to your product after considering data and feedback in the Test and Evaluate Design Using Specifications and Refine the Design steps of this project?						Presentation of the Product The social awareness campaign platform (website) must include: 1 An education section that will inform community member about the science of treatment for infectious diseases, the production of vaccines, and data on the inequity the community faces. 2 An ad or infographic that will inform the community about the problem with inequity in medicine. 3 A PSA video with a call to action for equity and equality in community healthcare. 4 A mock social media profile that can show outreach and a method for engaging with the community. 5 Features that are targeted to your specific audience. (For example, if your target audience is non-English speaking, it may be helpful to add pages that are translated in that language or record a second PSA video with a voiceover in the native language of that group.)						
						onal work w space belov		eded to pre	pare the c	ampaign fo	r	

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In addition guidelines questions	n to your pi in the jour about you	resentation real, answer r solution.	format ou r the follov	tlined in th ving	e	share profil <i>Explo</i>		ifferent co oning behin	mmunity f and any cha	you were to rom the cor unges or	nmunity
2 What	were the w	reaknesses	of your car	mpaign?							