

The Great Escape! Activity 5: Create an Info-graphic

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Objectives:

1. Use principles of buoyancy and pressure to identify and explain the possible physiological effects submarine escape can have on the human body.
2. Generate an info-graphic that visualizes the effect water has on a submerged diver, and the physiological effects that are a threat to submerged divers.

Task:

1. Design an info-graphic that visualizes the effect water has on a submerged diver, the physiological effects that are a threat to the safety of submerged divers, and the use of a hyperbaric chamber to help reverse those effects. Your info-graphic should support a common theme, which is supported by clear, carefully researched evidence that is presented graphically.
 - You should include statistical graphs and any relevant data. Approach an info-graphic as you would any other form of design.
 - Begin by putting together a skeleton of words and arrows, grouping relevant data together and visualizing the flow of information using flow charts.
 - See the Rubric at the end of this activity for "expectations".
2. Review the vocabulary used in the previous assignments. Try to include as much of the vocabulary into your info-graphic. Many of the vocabulary words can be used as transition or connecting points for graphics, charts, or statistics.
3. The following website may be used as a starting point for researching physiological effects on the human body specific to emergency submarine escape. <http://www.hnsa.org/doc/submed/chap21.htm#pg322>

Tips on completing an info-graphic project:

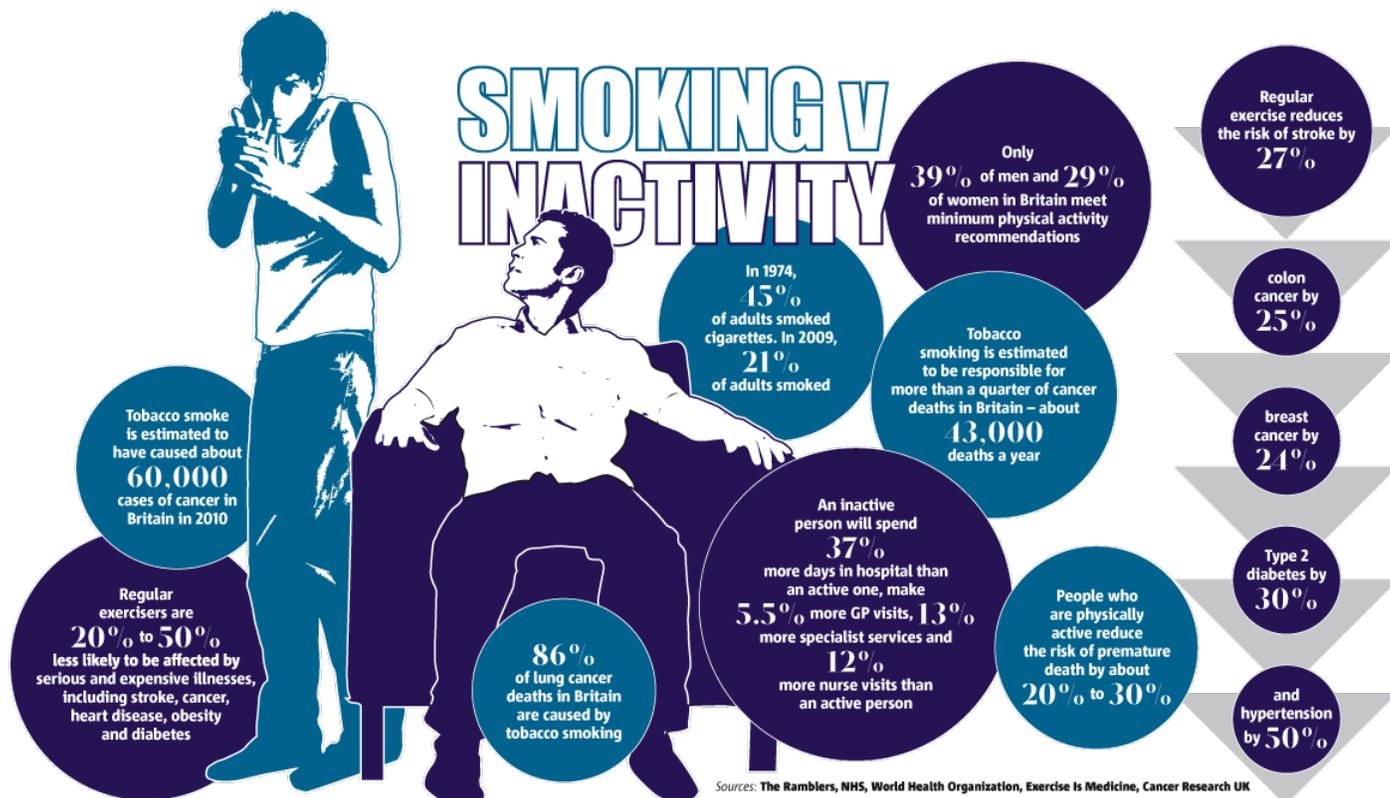
1. Consider your audience. Who is going to use your info-graphic? Depending on the demographic, your info-graphic will accordingly reflect colors, icons, knowledge and complexity.
2. Determine what kind of graph will best represent each of the data groups that you will use in your info-graphic. Investigate example visual approaches by studying the Periodic Table of Visualization Methods: http://www.visual-literacy.org/periodic_table/periodic_table.html
3. Make sure your info-graphic has a conclusion, or overlying message.
4. Be sure to include a works cited page for any sources that were used to develop your info-graphic. Use EasyBib to generate a citation. <http://www.easybib.com/>

Different ways to make your info-graphic more appealing:

1. Make use of as many colors that you have in the color wheel
3. Don't write long paragraphs, use short and precise sentences
4. Copy or generate simple charts that help to illustrate data or support a statement
6. You can extend the info-graph by placing content instead of statistics
7. Structure the info-graph using nice styles
9. Use other info-graphics as resource to create a new info-graph.

Example Info-graphic

Keeping active is good for our health, but is a bout of inactivity as bad for us as smoking?



"Could Sitting around Doing Nothing Really Be as Bad for Us as Smoking?" *Metro Could Sitting around Doing Nothing Really Be as Bad for Us as Smoking Comments*. N.p., n.d. Web. 31 July 2014.

EXAMPLE RUBRIC

Components	Exceeds Expectations	Meets Expectations	Needs More Work
Topic	The topic of the infographic is specific in nature and is intended to inform or convince the viewer.	The topic of the infographic may be a bit too broad to allow the viewer to understand the main points.	The topic of the infographic is hard to ascertain and needs to be made more specific.
Type of Infographic	The type of infographic chosen (timeline, informational, etc.) highly supports the content being presented.	The type of infographic chosen represents the content being chosen but another type may lead to more clarity for the viewer.	The type of infographic chosen does not convey the information well or support the content being presented..
Objects	The objects included in the infographic are repeated to support various data points and to make it easier for the viewer to understand the infographic.	Some objects included in the infographic are repeated but the infographic did not seem to include enough repeated elements to make it understandable.	Too many different types of objects are used in the infographic and that makes it hard for the viewer to understand the content.
Data Visualizations	The data visualization formats chosen make the data presented easy for the viewer to understand the information. Selection of images and text demonstrates clear understanding of audience & purpose. High quality graphics created or modified from stock art.	The data visualization formats chosen showcase the data, but some may make it difficult for the viewer to understand the points. Images used are mismatch and add to visual confusion. Graphics are low quality clip art.	Other data visualization formats should be chosen to best showcase the data presentation for the viewer. Images are not consistent, sized poorly. Low-quality clip art used. Extraneous graphic elements.
Fonts	The infographic includes an appropriate font to both complement the content and make the text readable. Title & headings easy to distinguish from other text. Appropriate font sizes.	The infographic includes multiple fonts and/or the fonts do not seem related to the infographics topic.	The font(s) used in the infographic make the text almost unreadable.
Colors	The color choices enhance the visibility of the infographic. Different saturations of the same color are used wisely.	The color choices are fine, but too many colors may have been used.	The color choices for the infographic are not visually pleasing and detract from the infographic.
Layout	The principles of design: consistency, hierarchy, chunking, alignment, and proximity where used to create a pleasing composition that guides the viewer's eyes quickly and easily through the information. No pixelation on images.	Alignment issues. Some images are pixelated. Images obviously downloaded from internet, bad resolution, no consistency.	Elements are thrown on the page. Pixelation. No original artwork done.
Information Organization	The infographic uses one of the LATCH (location, alphabetical, timeline, category, or hierarchy) information organization formats to allow the viewer to understand the information in the infographic.	The infographic uses some components of the LATCH information organization formats, but the cohesiveness of the information presentation is lacking.	No information organization choice is present in the infographic. Disregard for copyright laws.
Citations	Full bibliographic citations for all sources used are included. Respect for Intellectual property.	The URL of sources used are included. Copyright laws broken?	No citations to sources used are included.
Content	Research demonstrates a complete understanding of the topic. Extends audience vocabulary by defining or illustrating words that might be new to most of the audience.	Information is gathered together, but no conclusion can be reached about the facts. No jargon used.	Haphazard collection of data.
Mechanics	Deadline met. Correct file format: .PDF	One day late on turn-in Incorrect file format	More than one day late. Incorrect file format