

IT832

Modeling Group Assignment 1

This is a group assignment

- Work together in your group and research a problem that you can build a model for in Insight Maker
 - You can use some of the example models that are in Insight Maker



The screenshot shows the Insight Maker website interface. At the top, there is a navigation bar with a home icon, "Groups", "Explore Insights", "New Insights", "Help", "My Stars", "About Me", and "Log Out". Below the navigation bar is the "INSIGHT MAKER" logo, which consists of a stylized figure made of colored circles (purple, red, yellow, green, blue) and the text "INSIGHT MAKER". A yellow arrow points to the "New Insights" link in the navigation bar. Below the logo is a white box with a blue checkmark icon and the text "Create New Insight". Below that is another white box with a yellow flag icon and the text "Welcome to Insight Maker: free modeling and simulation in your browser". Below this is a paragraph of text: "Get started by [creating a new Insight](#), [reading the manual](#) or [checking out free videos and guides at STW: Insight Maker](#). There is also [Beyond Connecting the Dots](#), a book on simulation and modeling using Insight Maker."

Explore

- Search through the Insights to find one that you like and want to research
- Once you find a model or if you have a research paper, find a related model

The screenshot shows the 'INSIGHT MAKER' website. At the top left is the logo, which consists of a colorful circular graphic and the text 'INSIGHT MAKER'. To the right of the logo is a search bar with the placeholder text 'Find Insights' and a 'Search' button. Below the search bar is a smaller input field with the text 'Enter keywords or topics to find matching Insights.' To the right of the search bar is a 'Cre' button with a document icon. Below the search bar is a section titled 'Popular Tags' with a grid of 48 tags. The tags are arranged in 6 rows and 8 columns. The first row contains: 4V Kite, ABM, Adventures In Wonderland, Agent-Based Model, Agriculture, Animals, and Archetype. The second row contains: Arizona, BCTD, Behavior, Biogeochemistry, Biology, Business, and Causal Loop. The third row contains: Causal Loop Diagram, Cegep, Chaos, Circular Economy, Cw/M, Climate, and Clinical Care. The fourth row contains: Crime, Decision Making, Demand, Demographics, Desert, Diabetes, and Disease. The fifth row contains: Ecology, Economics, Education, Emergency, Energy, and Engineering. The sixth row contains: ENVE531, Environment, Finance, Food, Food Chain, FOOD WEB, and Fup. The seventh row contains: Greenhouse Effect, Growth, Health, Healthcare, Health Care, Hospital, and Humanities. The eighth row contains: IACS, Inventory, ISD, KeLE ABM, Kinematics, Learning, Linear Economy, and Methods. The ninth row contains: Management, Manufacturing, Markov Chain, Mat375, Mathematics, Metapopulation, and Methods. The tenth row contains: Midterm, Ocean, Patient Flow, Performance, Perspectives, Physics, and Phytoplankton. The eleventh row contains: Policy, Politics, Population, Population Ecology, Population Growth, and Populations. The twelfth row contains: Primary Production, Regional, Rich Picture, Science, Services, and Sketch Rate Amount.

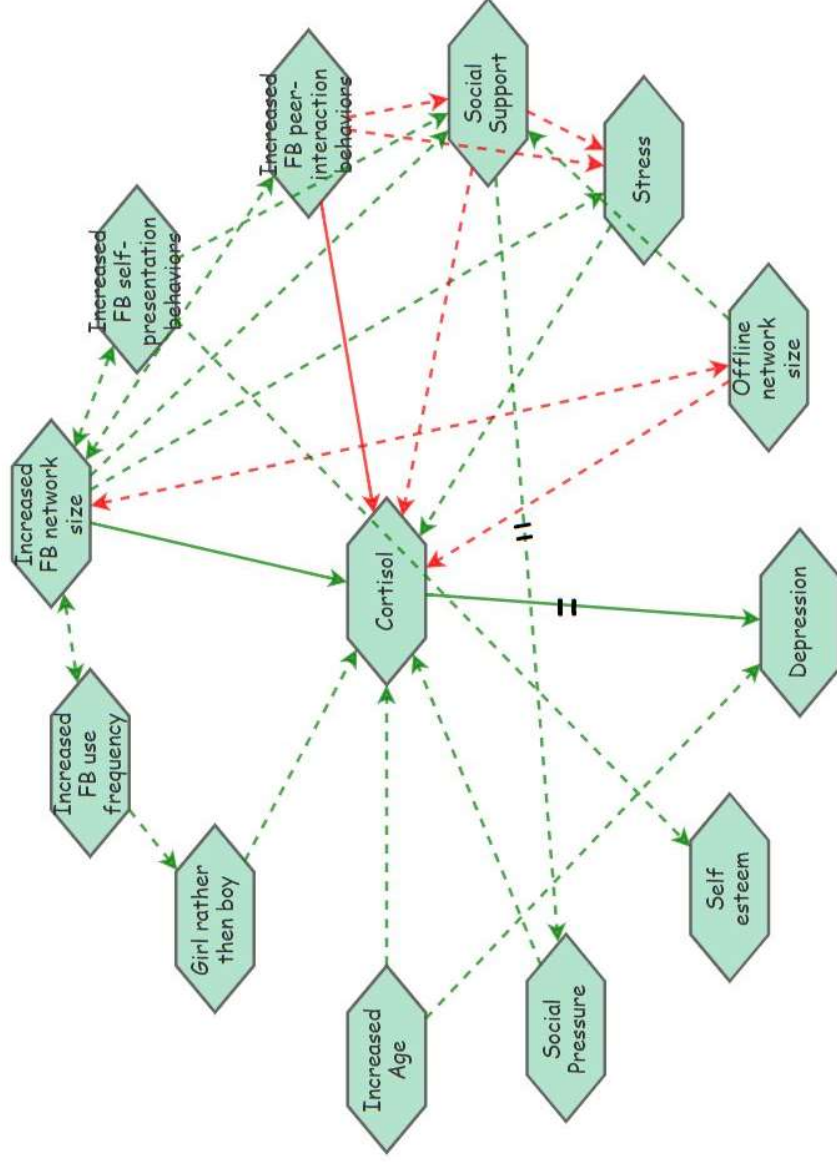
You need to have an academic research paper

- Find a research paper that addresses your topical area
- Use the model that you are going to create that is related to the paper to help gain insight and understanding

The collage features several articles and diagrams:

- Social Media Trends** by Emily Rodrick (1 year 3 months ago): A diagram showing a flow from 'Social Media' to 'Trends' and 'Influencers'.
- Social Media Followers** by Anubhav Pande (6 years 7 months ago): A diagram showing a network of nodes representing social media followers.
- ICC Cricket World Cup 2019 Bangladesh** by Nauman Nasser (3 months 1 week ago): A diagram showing a bar chart of cricket statistics.
- Quick Facts You Need To Know About Modern Brand Advertising** by Jilll Rose (7 months 3 weeks ago): A diagram showing a flow from 'Brand Advertising' to 'Modern Brand Advertising'.
- Best Ways Promote a Your Local Business on Instagram** by Grace Williams (1 year 2 months ago): A diagram showing a flow from 'Local Business' to 'Instagram'.
- Project Stage 2** by Eisha Sharda (1 year 2 months ago): A diagram showing a flow from 'Project Stage 2' to 'ISCI 360 Project - Stage 2'.
- The real spider man** by Jashon Langer (7 months 3 weeks ago): A diagram showing a globe and a laptop.
- FB Final nsafy**: A diagram showing a network of nodes representing Facebook behaviors.

Example



A graphical representation of a study whose findings are recorded in the article [Facebook behaviors associated with diurnal cortisol in adolescents: Is befriending stressful?](#)

A few notes
 Green Arrow = Increase
 Red Arrow = Decrease
 Two Dashes = Time Delay

Sources

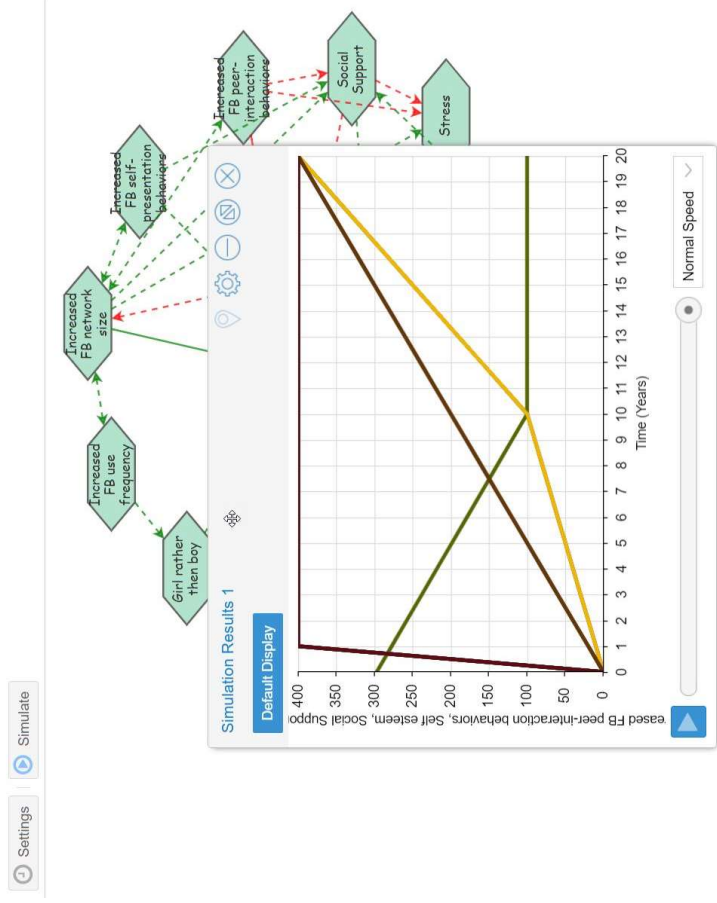
Morin-Major, J. K., Marin, M., Durand, N., Wan, N., Juster, R., & Lupien, S. J. (2015, October 9). Facebook behaviors associated with diurnal cortisol in adolescents: Is befriending stressful? . *Psychoneuroendocrinology*. doi:10.1016/j.psyneuen.2015.10.005.

Turgeon, J. K. (2011, August 9). How Facebook And Social Media Affect The Minds Of Generation Next. *Huffington Post*. Retrieved from <http://www.huffingtonpost.com/>

Facebook Can Negatively Affect Teens' Substance Use Treatment, Study Suggests. (2012, May 9). Retrieved January 19, 2016, from Partnership for Drug-Free Kids website: <http://www.drugfree.org/join-together/facebook-can-negatively-affect-teens-substance-use-treatment-study-suggests/>

Adjust some of the variables...

- Adjust some of the variables
- Run the model
- Tell the story



Submit the Word document with graphics

- After you have completed this in your group, submit the assignment.
- You are going to use this as the basis for your presentation
- Make sure to describe:
 - The research area
 - The type of modeling used
 - What you discovered
- The paper should be long enough to tell the story with words and of course with graphics of the model and results of the simulation. Previous residency papers are normally a minimum of 8 pages.