

Instructional Sequence/Notes/Read me:

Goal: In this module, students will analyze the evidence and reasoning related to the question of whether or not cell phone/gaming addiction should be recognized as a mental illness.

SEPS: Analyzing and interpreting data, Engaging in argument from evidence, obtaining, evaluating, and communicating information.

Content: Nervous system, cells, Nervous system, cells, information processing

Enduring understanding 2.C: Organisms use feedback mechanisms to regulate growth and reproduction, and to maintain dynamic homeostasis.	Essential knowledge 2.C.1: Organisms use feedback mechanisms to maintain their internal environments and respond to external environmental changes.
	Essential knowledge 2.C.2: Organisms respond to changes in their external environments.
Enduring understanding 2.D: Growth and dynamic homeostasis of a biological system are influenced by changes in the system's environment.	Essential knowledge 2.D.1: All biological systems from cells and organisms to populations, communities and ecosystems are affected by complex biotic and abiotic interactions involving exchange of matter and free energy.
	Essential knowledge 2.D.2: Homeostatic mechanisms reflect both common ancestry and divergence due to adaptation in different environments.
	Essential knowledge 2.D.3: Biological systems are affected by disruptions to their dynamic homeostasis.
	Essential knowledge 2.D.4: Plants and animals have a variety of chemical defenses against infections that affect dynamic homeostasis.
Enduring understanding 2.E: Many biological processes involved in	Essential knowledge 2.E.1: Timing and coordination of specific events are necessary for the normal development

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- 1. Discuss what the word addiction means to students.
- 2. Discuss what demetrication means. Show examples of
- 3. Have students review the articles and videos 1-4 on following page.
- 4. Break students into 8 different groups. Assign the students to one of the 8 different roles in society.

Claim: Facebook/Twitter Should Demetricate	Claim: Facebook/Twitter Should NOT demetricate
Parent	Facebook owner and shareholder, Mark Zuckerberg
Stress out Student	Popular Student
Teacher	Twitter computer coder
Psychologist (Mental Health Professional)	Facebook/Twitter Advertiser

- 4. Students read the articles (below chart) that go with their position.
- 5. Students produce a slideshow or poster that supports their role's claim. Potentially formatted...

Claim: _____

Evidence #1: #, fact, stat
Reasoning: Connect claim to evidence

Evidence #2: #, fact, stat
Reasoning: Connect claim to evidence.

Evidence #3: #, fact, stat
Reasoning: Connect claim to evidence

6. Students plan questions using the “**Facebook/Twitter Demetrication Question Asker**” sheet.
7. Students present their assigned positions.
8. While students present their role’s position, they should be taking notes.
9. Students use the evidence to communicate their own personal position with the “**Your personal vote**” sheet. Extension: Students communicate their own person position to appropriate policy maker.

Tips:

- Emphasize students are role playing in order to learn new information they should consider as they make their own personal statement after all the different roles have presented.
- Check students work on presentations regularly.
- I’ve had students do one piece of evidence on each slide, which includes the reasoning connecting the evidence to their claim.
- Differentiate the activity by assigning more complex roles to specific groups.
- Think about including specific required terms be on slideshows to facilitate students making the connections with positive reinforcement, neurons, neurotransmitters, etc...
- Consider bringing in a guest speaker related to the topic.
- Encourage students to call professional and seek their input, instead of simply relying upon the articles.
- The articles in the chart below are a suggested starting point for research. Students are not limited to these sources, but should cite their work in the presentation.

Should Facebook/Snapchat/Twitter/Instagram Demetricate (stop displaying numbers to users)?

Positive reinforcement vs. negative reinforcement (coaching, biofeedback, experiments, different contexts...goal help students see theme of reinforcement in contexts of computer learning)

Background...

1. Imagining a world with no like button.
<https://fortune.com/2019/05/01/twitter-instagram-facebook-like-button/>
2. Wired phone addiction transcript
<https://docs.google.com/document/d/1AjKluwqUsgrXI80HSIEUy2LVnTLLwjQnWgWrIASEIS0/edit?usp=sharing>
3. My life without metric: maybe start here.
<https://www.wired.com/story/experiment-social-media-demtricators/>
4. Instagram is hiding likes. Will that reduce anxiety?
<https://www.nytimes.com/2019/07/18/world/instagram-hidden-likes.html>
5. Facebook Demetricator chrome extension
<https://chrome.google.com/webstore/detail/facebook-demetricator/dbkgglbefgkimiadfjmgkjmaoahephg?hl=en>
6. Instagram, Demetricator
<https://chrome.google.com/webstore/detail/instagram-demetricator/nbdbpdilpgjifakaelefbejjaccjh?hl=en-US>
7. Both sides: Overview article on good/bad research links to other
<https://newsroom.fb.com/news/2017/12/hard-questions-is-spending-time-on-social-media-bad-for-us/>
8. Against social media usage: Passive Facebook usage undermines affective well-being: Experimental and longitudinal evidence. <https://psycnet.apa.org/record/2015-08049-001>
9. Washington Post Article on Demetrication
https://www.washingtonpost.com/news/the-intersect/wp/2018/03/19/facebook-is-experimenting-on-you-heres-how-you-can-run-an-experiment-on-it/?utm_term=.866cd48acb77
10. Pro demetrication...
<https://www.thefader.com/2018/08/09/social-media-stats-jme-get-rid-of-demetricator-twitter>
11. Counting up likes and sense of purpose of life...<https://www.dailymail.co.uk/sciencetech/article-3801699/Do-count-Likes-Facebook-lost-pur-pose-life-claims-study.html>
12. Common Sense Article on Internet/Phone Use.
https://www.common sense media.org/sites/default/files/uploads/research/csm_2016_technology_addiction_research_brief_1.pdf
13. Six ways to counter demetrication. <https://econsultancy.com/six-ways-brands-respond-demetrication-trend-social-media/>
14. Like count ban impacts...<https://econsultancy.com/what-will-instagrams-like-count-ban-mean-for-influencers/>

Overview of positions:

Psychologist (Mental Health Professional)	Facebook owner and shareholder, Mark Zuckerberg
Parent	Popular Student
Stress out Student	Twitter computer coder
Teacher	Facebook/Twitter Advertiser

Con: Stop displaying metrics to social media users.

Pro: Keep displaying metrics to social media users.

Mental Health Profession

Mark Zuckerberg

1. Article 2 Well-being and Social Media Use.
<https://psycnet.apa.org/record/2015-08049-001>
2. Article 3
<http://www.health.com/anxiety/cell-phone-addiction>
3. **Common Sense Article on Internet/Phone Use, pg. 5-9.**
https://www.common sense media.org/sites/default/files/uploads/research/csm_2016_technology_addicti on_research_brief_1.pdf



<https://thriveglobal.com/stories/why-you-should-see-a-psychologist/>

Makes money off of targeted marketing, keeping people hooked on platform allows them to better sell ads.

1. Article 1 <https://www.barrons.com/quote/stock/fb>
2. Article 2
<https://www.marketwatch.com/story/facebook-stock-hits-highest-price-in-nearly-a-year-after-reports-of-5-billion-ftc-fine-2019-07-12>
3. Article 3 Positives of Social Media.
<https://curatti.com/social-media-positive-effects/>
4. Six ways to counter demetrication.
<https://econsultancy.com/six-ways-brands-respond-demetrication-trend-social-media/>
5. Like count ban impacts...
<https://econsultancy.com/what-will-instagrams-like-count-ban-mean-for-influencers/>



Parent of Heavy Social Media of stressed student

Popular Student

1. Article 1 [Status of Mind Report](#).
2. Article 2 Well-being and Social Media Use.
<https://psycnet.apa.org/record/2015-08049-001>
3. Article 3
<http://www.health.com/anxiety/cell-phone-addiction>
4. **Common Sense Article on Internet/Phone Use, pg. 5-9.**
https://www.common sense media.org/sites/default/files/uploads/research/csm_2016_technology_addicti on_research_brief_1.pdf



<https://www.99check.com/blog/10-parenting-tips-helping-teen-transition-high-school/>

1. Article 1 Positive effects of social media
<https://www.familyorbit.com/blog/the-positive-effects-of-social-media-on-your-teen/>
2. Article 2 Positives of Social Media.
<https://curatti.com/social-media-positive-effects/>



<https://247sports.com/nba/cleveland-cavaliers/Bolt/LeBron-James-says-he-wants-to-play-with-his-son-in-NBA-116148542/>

Teacher

Twitter/Facebook Coder