

EVENT ENGINEERING

Explore the formation of earthquakes along with the statistics of them in Vancouver within the past 100 years. Discuss the current infrastructure of earthquake-proof housing compared to normal ones remember to consider the durability of both.

- Simulate the collapse of a residential home with and without earthquake-proof measures using classroom materials (Jenga blocks, skewers, tape, etc.)

ADDITIONAL RESOURCES

- [https://earthquake.usgs.gov/earthquakes/map/?
extent=-66.7949,-43.24219&extent=80.11
726,384.25781](https://earthquake.usgs.gov/earthquakes/map/?extent=-66.7949,-43.24219&extent=80.11726,384.25781)

EVENT

ASTRONOMY

Solar cells are the central aspect of the astronomy prompt. Discuss the properties of current solar cell technology and how they are affected in space due to lunar regolith, and solar radiation conditions.

ASSIGNMENT

- without doing any external research, brainstorm the conditions of the moon and the effects it may have on solar cells in groups

RESOURCES

- https://www.esa.int/Enabling_Support/Space_Engineering_Technology/SOLARIS/Space-Based_Solar_Power_overview
- <https://www.energy.gov/space-based-solar-power>
- <https://science.nasa.gov/learn/basics-of-space-flight/chapter11-3/>

EVENT

LIFE SCIENCES

Discuss the types of arthritis along with the medication and treatment. Go over the risk factors of arthritis and what aspects of a patient's life may induce or reduce the pain.

ASSIGNMENT

- Demonstrate the joint movement with arthritis using classroom materials (skeleton bones & clay)

RESOURCES

- https://www.cdc.gov/arthritis/basic_s/types.html
- <https://www.hopkinsmedicine.org/health/conditions-and-diseases/arthritis#:~:text=or%20more%20joints.-,There%20is%20no%20cure%20for%20arthritis.,reduction%2C%20exercise%2C%20and%20surgery.>
- https://www.cdc.gov/arthritis/basic_s/management.htm