

To Build or Not to Build?

Surface Processes Project



You have recently been employed by a development firm, who is looking to build more properties both locally and globally. They have hired you, a geologist specialising in surface processes, to be part of a team analysing different building site locations to see how the location will be affected over time by different surface processes. The lead developer, Ms. Ivankovic, wants to know whether the location would be a good spot to build new houses.

You may work as an independent geologist or as a team of two.

You can present your findings in any format: poster, report, powerpoint, video, etc.

Your job is to select **one** of the four surface processes we have not covered in class for your analysis.

- Running water
- Glaciers
- Wind (Aeolian) Processes
- Groundwater

Chosen surface process: _____

Your analysis will need to have **TWO** parts

- Explain and describe how does your chosen surface process affects and changes the landscape.
 - o You **must** include a short description of how Bowen's Reaction Series would affect the weathering or erosion done by your chosen surface process.
 - o Include pictures/ diagrams to help your explanation.
- Find a case study (local or global)
 - o Include an explanation of how it has been altered by your chosen surface process
 - o Include **why** you do or do not recommend building at this site

You must include a **reference list** in APA format (with in-text citations for full marks)

Rubric

	Knowledge (describing)	Understanding (explaining)		Evidence of research
15-14	<ul style="list-style-type: none"> - Detailed description of how the surface process is affecting and changing the earth's surface. - Correct and detailed description of how Bowen's Reaction Series would affect the erosion and weathering. - Pictures/ diagrams support your explanation. 	<ul style="list-style-type: none"> - Detailed description of a case study supported by a thorough explanation of how the landscape has been altered by the surface process. - Detailed explanation of your building recommendation, supported by your explanation of the of how the landscape has been altered. 	5	<ul style="list-style-type: none"> - Sources are cited correctly - Correct <u>reference list</u> in APA format - In-text citations included
13-11	<ul style="list-style-type: none"> - Description of how the surface process is affecting and changing the earth's surface. - Description of how Bowen's Reaction Series would affect the erosion and weathering. - Pictures/ diagrams provide some support for your explanation. 	<ul style="list-style-type: none"> - Description of a case study somewhat supported by a explanation of how the landscape has been altered by the surface process. - Explanation of your building recommendation, some support by your explanation of the of how the landscape has been altered. 	4	<ul style="list-style-type: none"> - Sources are mostly cited correctly - <u>Reference list</u> in APA format
10- 8	<ul style="list-style-type: none"> - Some description of how the surface process is affecting and changing the earth's surface. - Attempt at describing how Bowen's Reaction Series would affect the erosion and weathering. - Pictures/ diagrams are included. 	<ul style="list-style-type: none"> - Description of a case study - Explanation of your building recommendation 	3	<ul style="list-style-type: none"> - Sources are cited - Websites listed
7- 0	Not Completed	Not Completed	2-0	Not Completed

Comments: /35
