

Class Mode Extension Activity 1: Tsunami Signage – 1.32

From the teaching guide of <http://wikieducator.org/Tsunami>

<p>Builds on:</p> <ul style="list-style-type: none"> Lesson 1.31 - Knowledge of official tsunami signage Lesson 1.1X - Understanding of physical attributes of tsunami, especially run-up <p>Future connections:</p> <ul style="list-style-type: none"> Lesson 3.21 – escape routes Lesson 3.42 – tsunami game 	<p>Connection to Learning Outcomes:</p> <ul style="list-style-type: none"> Define tsunami, describe how it occurs and identify the warning signs - both man-made and natural. Describe the physical and social effects that a tsunami can have. Design and evaluate survival plans and precautions against the threat of tsunami for their local context and other contexts.
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Collaborative Activity:

Students work in groups to assess tsunami risk of local area (or select a coastal region if local area is unsuitable), produce relevant signage and plot its placement. Each group will place one of each type of sign according to the three displayed in lesson 1.31: http://wikieducator.org/Tsunami/Phase_1/Lesson3_1

Preparation:

- Print (or record coordinates online for students to display on screen) maps of local coastal areas. The class will be divided into groups for this activity and the number of maps available should be the same as the number of groups. Minimum group size is 3 students, larger groups mean students share roles.
- Refer to official tsunami signage online ([New Zealand signage](#), [California Signage](#) or [other places](#))
- Print a set of paper slips per group with the following role descriptions (or write on the board)

Roles & Responsibilities:

- Team Leader (TL): Communicates with other leaders and teacher if needed. Keeps group on task and supports others in group where needed. Will manage presentation.
- Chief Artist (CA): In charge of sign creation. All students participate in this, but CA manages the process. Will describe the type and function of signs in presentation.
- Risk Surveyor (RS): In charge of surveying the map and assessing tsunami risk areas. Other students participate, but Surveyor has final say on placement of signage.

Facilitation:

Time	Action	Notes
T – 10 min	Introduce activity and assign groups & team leaders	<i>set time limit for assigning TLs</i>
10 – 15	TLs choose a map for their group & group assign individual roles.	
15 – 25	RS & TL – Assess map and select appropriate location for each sign. CA – Start to produce signage	<i>Teacher decides parameters for signage: sketch? Print and cut out? sign board? Etc</i>
25 – 35	Continue previous task as needed. Begin planning presentation	<i>Presentation must include physical map (printed or sketched).</i>
35 – 40	Finish planning presentation	
40 – End	Groups present their plan & signage according to their role: TL introduces the group and area CA presents signage and placement RS explains and justifies placement	<i>Divide time left by number of groups as time limit for each presentation.</i>

Some Potential Reflection Tasks (next lesson):

- Class discussion on pros and cons of group designed signage & vote on most suitable.
- In same groups or individually: students create a full map (print, paste or sketch) with all coastal areas and all chosen signage locations indicated.
- In same groups, groups swap maps and assess each other's placement decisions.
- Scenario: tsunami is on its way (teacher decides distance in time and expected run-up). Tsunami warning alarms sound and people near coast look for tsunami signage. Based on the distance and run-up, and on the directions given in their signs (i.e. evacuation routes and locations) students assess whether the signage they have placed will save lives.