

## **Create a New Town**

Congrats! Your group has just been elected as the new planning committee for the town. As a committee you must design a building that will withstand natural disasters. The structure must also withstand the hazards of the area. In order to do this you must first get a geological license. As a team, you will prove your skills as geological engineers by researching three geological changes and designing a *PowerPoint* kiosk and a quiz for topic to educate other aspiring geologists. After you have received your geological license, you will be presented with the geological challenges you will face while constructing your building. You will discuss with your group the layout of the building, draw the design on graph paper and finally construct the actual building from assorted materials. Individually, you must create a presentation to warn others of hazards in the area and necessary precautionary steps.

### Obtaining Your Geological Licenses Rubric

		Novice	Apprentice	Practitioner	Expert
<b>Kiosk</b>	<b>Content</b>	Includes a separate slide for definition, 6 facts and 2 resources. Must include at least 6 slides	Includes a separate slide for definition, 8 facts and 2 resources. Must include at least 8 slides	Includes a separate slide for: definition, 10 facts, and 2 resources must include at least 10 slides	Practitioner plus 3 real life examples for each topic
	<b>Design</b>	Text only	1 graphic per slide which enhances the meaning of slide color scheme and font choices make for easy reading each slide can link to every other slide	2 graphics per slide which enhances the meaning of slide color scheme and font choices make for easy reading each slide can link to every other slide	All of Practitioner plus, at least three links for each topic to the World Wide Web
<b>Quiz</b>		Includes 5 questions based on information found in the kiosk	Includes 6-9 questions based on information found in the kiosk	includes 10 questions based on information found in the kiosk	Practitioner plus study sheet for classmates to use for study prior to the quiz
<b>Interview with Licensing Officer  (individual)</b>		Each student correctly completes the application neatly;  Correctly answers less than 3 of 5 interview questions	each student correctly completes the application neatly in ink;  correctly answers 3 out of 5 interview questions	each student correctly completes the application neatly in ink; correctly answers 4 out of 5 interview questions	Practitioner plus answers more than 5 interview questions

Congrats! You have been awarded your license! Your group must now design a building that will comply with the other buildings in the town. The structure will need to withstand the hazards of the area. You will discuss with your group the layout of the building, draw the design on graph paper and finally construct the actual building from assorted materials. Individually, you must create a presentation to warn others of hazards in the area and necessary precautionary steps.

### Building a Town Rubric

	<b>Novice</b>	<b>Apprentice</b>	<b>Practitioner</b>	<b>Expert</b>
Building 2D (group)	Scale displayed Shows 6 geometric designs, clearly labeled	Scale displayed Shows 8 geometric designs, clearly labeled	Scale displayed Shows 10 geometric designs, clearly labeled	All of practitioner plus measurement of at least 3 different angles clearly labeled
Formula (individual)	Applies correct formula & calculates either area or perimeter of given design showing all steps	Applies correct formula & calculates area & perimeter of given design showing all steps with some error.	Applies correct formula & calculates area & perimeter of given design. Show all steps with correct answers	Applies the correct formula & calculates area & perimeter of given design plus 2 additional geometric shapes within the design. Shows all steps with correct answers
Construction 3-D Building (group)	Designs building	Designs building to resist area hazards	Designs building to resist area hazards based on facts supported by 2D sketch	Practitioner plus labels at least 6 geometric designs on 3D building
Presentation/Visual (individual or groups of 2)	Less than 6 Precautionary tips based on location of area	6-9 precautionary tips based on location of town	10-12 precautionary tips based on location of town	Practitioner plus background of disaster area