

Spaghetti Earthquake Rubric

Student name: _____ Individual score: _____ /140

Team members: _____

Mass of structure (grams):	
Height of structure (cm, min 40cm):	
Total money spent (budget \$4875):	
Insurance?	Yes / No
Time recorded before structure collapse (sec, 10 sec minimum):	
Earthquake magnitude:	

	16 – 20 points	11 – 15 points	6 – 10 points	0 – 5 points
Architectural Drawing (Blueprint) & Building Permit Report	Diagram drawn extremely well. Professional look. Highly detailed. Parts labeled. Easy to understand. Exceptionally well-written building permit report.	Diagram drawn Satisfactorily. Drawing neat. Good detail. Most parts labeled. Understandable Satisfactorily written building permit report.	Diagram messy. Not labeled. Some detail. Difficult to read or understand. Incomplete building permit report	No diagram turned in. Poor or sloppy drawing. Very difficult to read or understand. Poorly written, incomplete or no building permit report
Use of Materials / Clean-up	Materials properly used and cared for. No materials wasted. Area cleaned up thoroughly by the bell.	Materials used properly but some wasted material. Area reasonably cleaned up by the bell. Materials being put away at bell.	Some or most materials wasted damaged or lost. Area not clean by the time bell rings. Materials put away after bell.	Most materials lost, damaged or wasted. Work area left a mess.
Team Cooperation	Group works very well together. Ideas from all members listened to and respected. Excellent participation.	Group works adequately well. For the most part ideas respected and listened to by all members. 1 or 2 warnings given for lack of	Group not cooperating. Not respecting or listening to others. 3 or more times warned for lack of cooperation or not	Group not attempting to work or cooperate. Inappropriate discussions not related to project.

	Appropriate discussion of topic.	cooperation or participation. Some arguing or inappropriate discussion.	participating. Arguing or inappropriate discussion.	Total lack of participation.
Group Presentation / Internet Research	Well presented. Presentation shows evidence of planning Two or more examples of research given. Excellent description of how research applies to project. All online sources provided.	Presentation good. Some evidence of planning. One or two examples of research Good description of how research applies. Some of the online sources provided.	Presentation weak. Little planning. One example of research given. Weak description of how research applies. Few online sources provided.	Presentation poor - little or no planning shown. No examples of research given. Poor description of how research applies. No online sources provided.
Building of Structure / Design	Very well built. Supports egg easily without leaning or swaying. Project requirements are met and exceeded. Project completed on time. Final structure closely matches the proposed blue prints and building permit report.	Structure stands on own but leans or wobbles. Will support egg. Project requirements are met. Completed on time. Final structure matches the proposed blue prints and building permit report only with minor changes.	Structure stands but will not support egg. Most project requirements are met. Requires extra time to complete project. Final structure has several changes from the proposed blue prints and building permit report.	Structure will not stand on own. Will not support egg. Project requirements are not met. Structure not finished even with extra time. Final structure does not match the proposed blue prints and building permit report.
Earthquake Test	Egg does not fall and structure remains intact for 10 sec.	Egg falls but structure remains intact and standing for 10 seconds	Egg falls. Structure breaks or falls within 10 sec.	No test / No structure. Structure so poorly built it cannot be tested.
Analytical Report	Exceptionally well-written Using all English conventions with no spelling/grammatical errors Proper technical terminology	Well-written Using most English conventions with 1-2 spelling/grammatical errors Mostly technical vocabulary	Mediocre quality Using some English conventions with several spelling/grammatical errors Little technical vocabulary	Unacceptable quality or no report submitted Using none/few English conventions with many spelling/grammatical errors No technical vocabulary

Points can be deducted on an individual basis. These deductions will only affect the individual and not the entire team. Examples of individual deductions are listed in the special instructions.

Category	Deduction
Over budget (10% point deduction for every \$100 over budget)	
Horseplay/messing around/too loud (-10 points)	
Not participating with team and/or ostracizing team members (-10 points)	
Disturbing/interfering with other teams (incl. touching other team's construction materials) (-20 points)	

☐ Student disqualified (zero mark).

Explanation: _____
