## **Design Project Rubric**

	4	3	2	1
Structure criteria	Meets all assignment criteria.	Missing an item from the criteria.	Missing two or three items from the criteria.	Missing four or more items from the criteria.
Blueprint	measurements are given. Design is properly labeled. Blueprint and model	ruler-drawn and measurements are given, but there are		resemble the actual model.
Scientific communication	Provides clear, effective explanation detailing how the task was carried out. All vocabulary was used correctly. Many connections were made to prior lessons and content to support communications.	Presented a clear explanation. Most vocabulary was used correctly. Some connections were made to prior lessons and content.	Incomplete explanation. Missing or misused vocabulary. Few if any connections made to prior lessons.	Explanation could not be understood or was incorrect. Vocabulary not used. No connections made to prior lessons and content.
resistant features	Incorporated seven or more earthquake- resistant features.	six earthquake-	four earthquake-	Incorporated two or less earthquake-resistant features.
survival	the simulated	simulated earthquake	Structure survived the simulated earthquake with major damage, such as a partial collapse.	Structure did not survive the simulated earthquake. There was a complete collapse of the structure.

## **Individual Report Rubric**

	3	2	1	0
Design description	Description includes specific details about the design process to make the structure earthquake- resistant and includes support, bracing, and movement. All vocabulary is used correctly.	Description includes some details about the design process to make the structure earthquake-resistant and includes support, bracing, or movement. Most vocabulary is used correctly.	Description includes few details about the design process to make the structure earthquake-resistant. Little is mentioned about support, bracing, or movement. Vocabulary is missing or not used correctly.	Design description not provided.
Materials used for resistance	accurate explanation about why each item	explanations and	Not all materials are listed. Most of the explanations and vocabulary are missing, incomplete, or incorrect.	No materials are listed. All explanations and vocabulary are missing.
Design decisions	All design decisions are explained correctly as they relate to earthquake resistance. All vocabulary is used correctly.	Most design decisions are explained correctly as they relate to earthquake resistance. Most vocabulary is used and used correctly.	Few design decisions are explained as they relate to earthquake resistance. Little vocabulary is used or used correctly.	Design decisions are not explained.

Design changes	Post-test design	Post-test design	Post-design changes	Post-design decisions
	changes are listed	changes are listed.	are listed. Rationale	are not listed or
	and explained in	Rationale for changes	for changes is lacking	explained.
	detail. All	is lacking in detail or	in detail and incorrect.	
	vocabulary is used	incorrect. Vocabulary	Vocabulary is	
	correctly.	is missing or not used	missing.	
		correctly.		
Proper writing	All writing	There are a few	There are some	There are many
conventions	conventions and	conventions and	convention and	convention and spelling
	spelling are correct.	spelling errors, but	spelling errors that	errors that make the
	The report is error-	they do not interfere	interfere with correct	report
	free.	with correct content	content and	incomprehensible.
		and readability.	readability.	