

SCORECARD: Flood Barriers (Grade 7)

+ DIRECTIONS

Complete the chart below by circling the scores your design received for the criteria and writing the score down in the “Score” column. Calculate your score when testing is completed and decide as a team if you can improve your score.

CRITERIA	POINTS				SCORE
	3	2	1	0	
COLLABORATION		The design has elements contributed by all team members.	The design has elements contributed by two team members.	The design does not have elements contributed by each team member.	
FLOODING	The protected property zone does not have any water.	The protected property zone has minimal flooding, less than 0.6 cm.	The protected property zone has some flooding, between 0.6 -1 cm.	The protected property zone has a significant amount of flooding, more than 1 cm.	
HEIGHT	The flood barrier is at least 2.5 cm high in all sections.	The flood barrier is at least 2.5 cm high in all sections but dropped below 2.5 cm after testing.	The flood barrier is below 2.5 cm in at least one section at the start of testing.	The flood barrier is below 2.5 cm in all sections.	
STRUCTURAL INTEGRITY	The flood barrier did not topple over or break.	The flood barrier may have toppled but did not have a hole or break.	The flood barrier had a single break.	The flood barrier had multiple breaks.	
POLLUTANTS	There are no pollutants in the container.	Pollutants are found in the container but not in the protected property zone.	Pollutants are found in container and protected property zone, but evidence of removal is found in materials during testing.	There was no attempt to remove pollutants.	
BUDGET USED	\$80,000 or less.	\$80,001 - \$89,999.	\$90,000 - \$100,000.	\$100,001 or more.	
BONUS: FULL PROTECTION		Flood barriers were used on all four sides of the protected property zone.		Flood barriers were used on 3 or fewer sides of the protected property zone.	
TOTAL SCORE					