

Thermos Design Challenge

Name _____

Hour _____

Task: Using a red solo cup and household materials, create a thermos with a lid.

Parameters: Your red solo cup must be able to hold 8 oz of liquid and cannot exceed 14 cm in diameter. You may not put anything INSIDE the cup. The lid must be able to be opened and closed to get the water in and to take the temperature of the water.

Goal: When filled approximately 90°C water, your thermos should maintain its temperature. *Hint: You should test it at home first!*

Testing: Testing will occur during class on Tuesday, January 19. You will be scored on the temperature of your water after 15 minutes, with a maximum of twelve points possible. Your thermos must be designed to allow a thermometer to measure the water temperature.

Degrees Lost	Less than 5	5 – 10	11 – 15	16 – 20	21 – 25	26 – 30	31 – 35	More than 36
Score	12	11	10	9	8	7	6	0

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