# MACHINE VOLUME WORKSHEET

(Official Team Submission Sheet)

Team Name: __________________________________________

School: ________________________________

Region: ________________________________

Division: [ ] I  [ ] II  [ ] III  (circle one)

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**STEP 1: Draw the footprint of your machine**

**NOTE:** If any part of the machine falls within a square, you must count the entire square.

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**STEP 2: Count the number of footprint squares**

**NOTE:** Each square is 1’ x 1’ (0.3 m x 0.3 m)

AREA: _______________  (choose one: ft² or m²)

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**STEP 3: Measure the height of your machine.**

**NOTE:** The maximum height is 8’ (2.4 m)

HEIGHT: _______________  (choose one: ft or m)

**NOTE:** If your ENTIRE machine sits on a table, the height of the table may be subtracted from the height of the machine. If only PART of the machine sits on a table, the table height must be included in the height of the machine.

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**STEP 4: Calculate the volume of your machine**

\[
\text{AREA (ft}^2 \text{ or m}^2) \times \text{HEIGHT (ft or m)} = \text{VOLUME (ft}^3 \text{ or m}^3)
\]

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**STEP 5: Verify machine volume equal to or less than 250 ft³ (7.1 m³)**

\[
\text{YOUR MACHINE VOLUME (ft}^3 \text{ or m}^3) \leq 250 \text{ ft}^3 (7.1 \text{ m}^3)
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We hereby confirm our calculations are correct. We understand at the time of the Contest, our machine may be measured by an RGMC official to confirm our submitted calculations. Deviations beyond the maximum allowed footprint and/or volume will result in Contest disqualification.

Team Captain Signature  ___________________________________  Date___________