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# OFFICIAL RULES FOR THE 2017 TULSA ENGINEERING CHALLENGE

## ALUMINUM BOAT

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### OBJECTIVE

The objective of the Aluminum Boat Contest is to 'load' a boat or vessel made of aluminum foil with the greatest number of pennies, until the boat sinks.

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### DESIGN STATEMENT

Each entrant will design and build a boat or vessel out of aluminum foil.

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### MATERIAL SPECIFICATIONS

1. Each contestant will receive one 12" by 12" piece of aluminum foil.
  2. Standard copper pennies will be used for the load.
  3. Pennies will be provided at the event.
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### CONSTRUCTION SPECIFICATIONS

There are no construction specifications per se, except that the vessel should carry as many pennies as possible. Pennies will be dropped one-by-one onto the boat/vessel from a platform approximately 18" from the water's surface. (Hint: flat-bottom 'barge' designs generally carry the greatest load if properly loaded.)

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### COMPETITION SPECIFICATIONS

1. This is a walk-up event needing no registration. All ages can participate.
2. Contestants will place their own boat into a tub of water.
3. Contestants will drop one-by-one and **count** their own pennies landing in their own boat until the boat sinks. Only pennies landing in the boat will be counted.
4. Contestants can only compete one time per day.
5. The competition will run continuously during the Challenge between 9:00 AM and 12 Noon.

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## JUDGING AND SCORING

A \$20 cash prize will be awarded each hour to the contestant with the most pennies for each division, Upper Division (9<sup>th</sup> thru 12<sup>th</sup>), Middle Division (7<sup>th</sup> thru 8<sup>th</sup>) and Lower Division (6<sup>th</sup> grade and under) loaded into her/his boat.

All potential winners' penny count will be verified by the Aluminum Boat Contest Judges. Judges will have the final determination of the official count.

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## GENERAL

The contest is limited to only one entry per student per day. Each entry must be by an individual. Teams are not allowed.

Questions about the event or TECh? Email: [tulsatechchallenge@gmail.com](mailto:tulsatechchallenge@gmail.com)

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## PRIZES

A \$20 cash prize will be awarded each hour to the contestant with the most pennies loaded into her/his boat for each division. Prizes will be awarded as follows: Upper Division (9<sup>th</sup> thru 12<sup>th</sup>), Middle Division (7<sup>th</sup> thru 8<sup>th</sup>), and Lower Division (6<sup>th</sup> grade and under) as follows:

First Place (each hour): \$20 cash or equivalent gift.

Any cash prizes will be awarded by a bank check and issued to the teacher/school listed on the registration to be cashed and distributed to the winning student. We will mail a check to the address listed on the registration within a few weeks of the competition. If you do not receive your prize within a few weeks, please email [info@tulsaengineer.org](mailto:info@tulsaengineer.org) with your team name, school, and competition won.

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