Award Descriptions for Judges' Room

Overview

The following pages contain VEX IQ Challenge award descriptions for use by Judges in the judging room. They list key criteria for each award and are useful in guiding the Judges' deliberations.

Judge Advisors may wish to print these descriptions in color and then laminate them or place them in plastic sheet protectors for use at multiple events.

For large events, the rankings for the Excellence Award candidates can be entered into the Excellence Award Calculator to compare the candidates.

Larger events may offer more of the awards. The Judge Advisor should consult with the Event Partner to determine which awards will be offered at an event. The Judge Advisor may then print and post the award descriptions that will be used.

Excellence

Demonstrates overall excellence in all components of the VEX IQ Challenge

Key Criteria:

- Design Award ranking
- STEM Research Project Award ranking
- Teamwork Challenge Qualification Matches ranking
- Robot Skills Challenge ranking
- Other judged award rankings
- High quality VEX robotics program



Implemented the most effective and efficient robot design process

Key Criteria:

- Engineering Notebook is a clear, complete, and organized document of the robot design process
- Team demonstrates effective management of skills, time, and material resources
- Students understand and explain how they developed an effective game strategy and robot design
- Students demonstrate teamwork and effective communication skills

STEM RESEARCH PROJECT

Developed and presented the most effective STEM Research Project

Key Criteria:

- Identifies a challenge topic of interest that relates to the STEM theme for the season
- Completes research and collects evidence using reliable sources
- Demonstrates a well-organized and documented process to study and explain their research findings
- Describes how the research findings were applied to develop the solution
- Shares the solution in an effective and creative presentation
- Students demonstrate an understanding of entire research process
- Students demonstrate teamwork and effective communication skills

JUDGES AWARD

Deserving of special recognition from the Judges

Possible Criteria:

- Team displays special attributes
- Exemplary effort and perseverance at the event
- Team accomplishments or endeavors throughout the season that may not fit under existing awards, but are nonetheless deserving of special recognition.

AMAZE

Built an amazing, high-scoring robot that demonstrates overall quality

Key Criteria:

- Robot design is consistently high scoring
- Robot demonstrates a solid mechanical design and is robustly constructed to fulfill its designed task
- Robot programming is consistently effective and successful
- Students understand and explain how they worked together to develop their robot

BUILD

Built a well-crafted and constructed robot

Key Criteria:

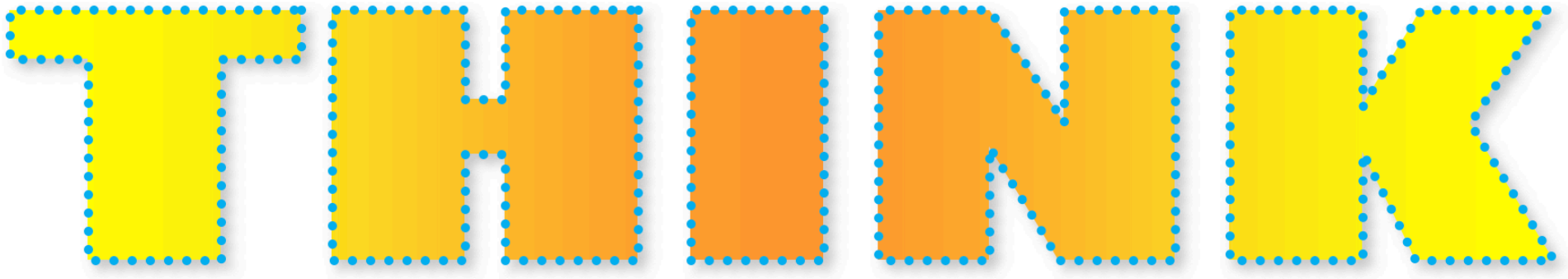
- Robot construction is of high quality; robust, clean, and effective use of materials
- Robot efficiently uses mechanical and electronic components
- Robot is designed with a clear dedication to safety and attention to detail
- Robot demonstrates reliability on the field and holds up under competition conditions
- Students understand and explain how they worked together to develop their robot

CREATE

Robot design incorporates creative engineering solution to game challenge

Key Criteria:

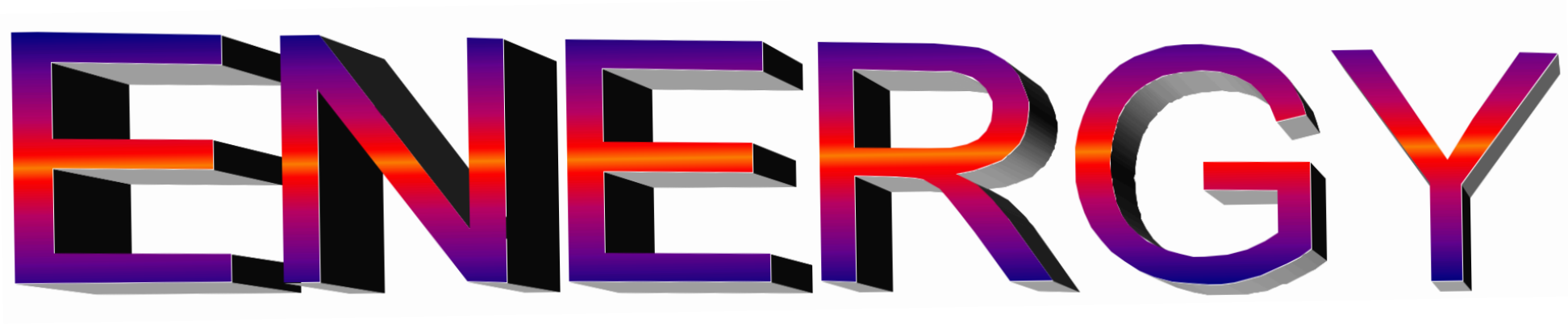
- Robot has a well-crafted, unique design solution, which demonstrates creative thinking
- Team has demonstrated a highly creative design process and methodology
- Team has committed to ambitious and creative approaches to solving the game challenge
- Students understand and explain how they worked together to develop their robot



Developed and effectively used quality programs in their game strategy

Key Criteria:

- All programming is cleanly written, well documented, and easy to understand
- Team has explained a clear programming strategy to solve the game challenge
- Team demonstrates their programming management process, including version history
- Students understand and explain how they worked together to develop their robot programming



Displays a high level of enthusiasm and passion at the event

Key Criteria:

- Team maintains a high level of excitement and energy throughout the event
- Team's passion for robotics enriches the event experience for others
- Students demonstrate teamwork and effective communication skills

Inspire

Team that inspires Judges with their STEM project

Key Criteria:

- Team effectively communicates passion for STEM
- Team's maintains a positive attitude throughout the STEM presentation
- Team impresses judges with their STEM presentation

SPORTSMANSHIP

Earned the respect and admiration of the volunteers and teams at the event

Key Criteria:

- Team is courteous, helpful, and respectful to everyone at the event, on and off the field
- Team interacts with others on the game field in the spirit of friendly collaboration
- Team demonstrates respect and willingness to help event staff, other teams, and spectators
- Team demonstrates excitement and enthusiasm throughout the event