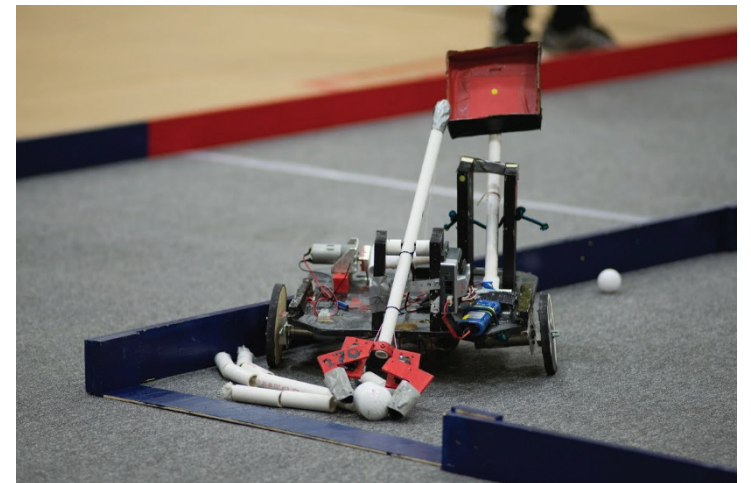
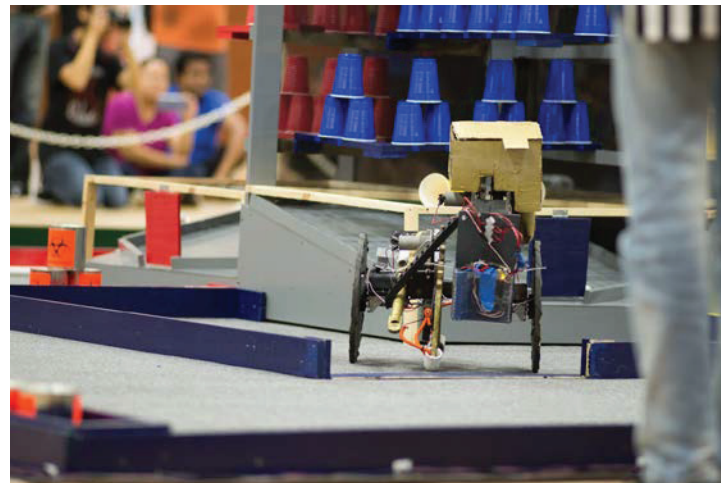


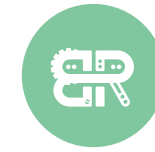
BEST ROBOTICS

BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

Competition Overview



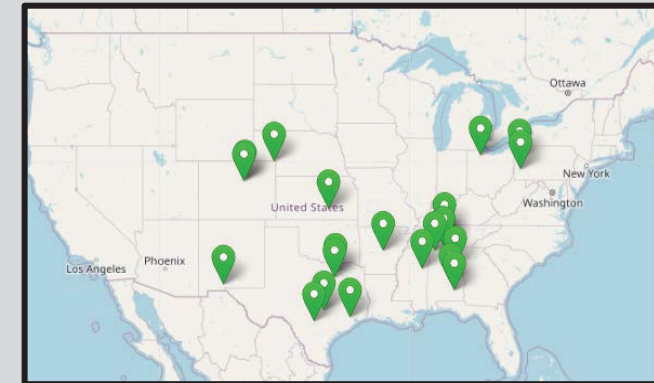
Competition Overview



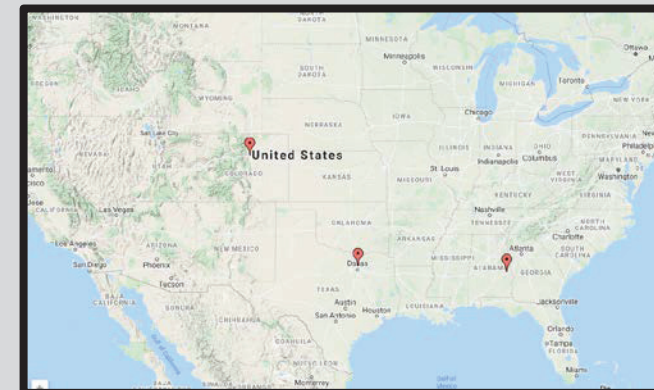
BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- Hub Level Competition
 - Held in local community/geographic area
 - Hubs follow the same rules, schedule & kit materials
 - One to Two-day event
 - Teams advance to a Regional Championship based on Hub performance
- Regional Championship
 - Competition between winners of Hub Level competitions
 - Two to Three-day event

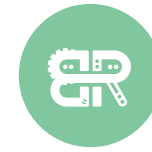
Hubs



Championships

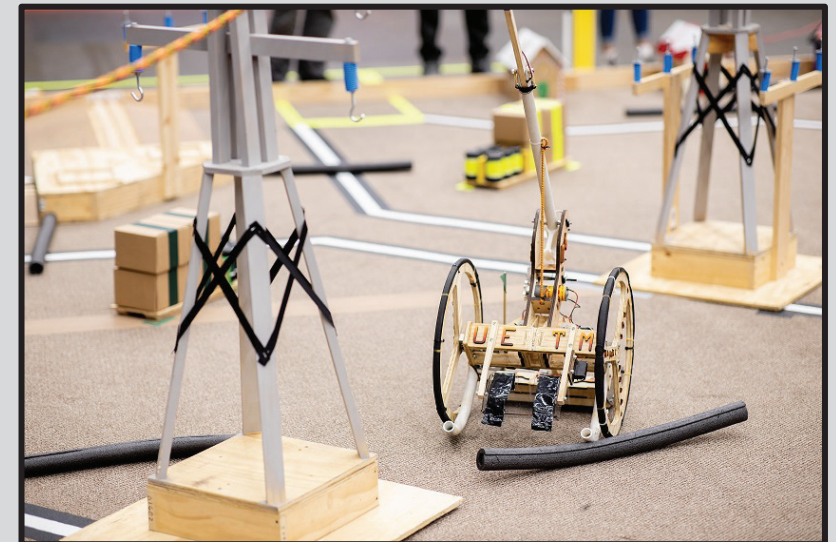


Competition Characteristics

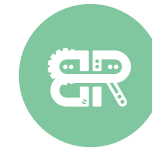


BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

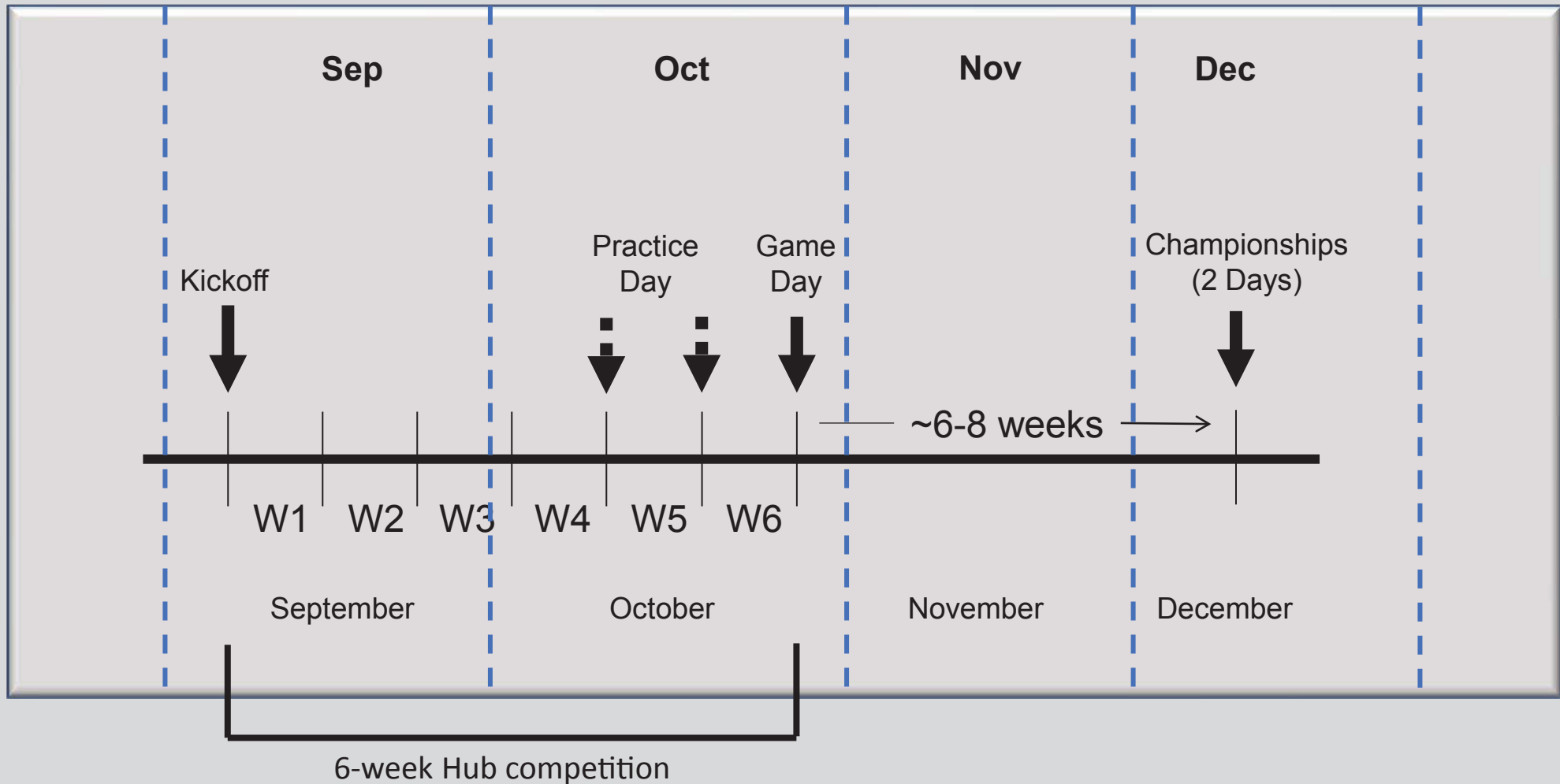
- Common Characteristics
 - No registration fees or equipment (kit) costs
 - Open to Middle or High Schools
 - Public, Private, Charter, K12 and Homeschools
 - One team per school
 - No limits on team size, student age
 - All teams compete against one another
- Consistent and Educational
 - Same rules, same kit, same schedule
 - Emulates real-world product development
 - Design to Cost, Design to Function, Time to Market
 - Help solve an industry or global problem



Competition Schedule



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY



Competition Formats



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

We've created Classroom and Online options to expand our BEST Robotics program while making it safe and accessible for students during these uncertain times.

BEST Classic 2021

*Go Head to Head
vs Other Robots*

- Standard Multi-team Format
- Same Legacy Competition
- BEST Award & Head to Head



BEST Classroom 2021

*It's BEST Robotics
On-Location*

- Hub Provided Field Kit
- BEST Award & Robot Time Trials
- Streaming from the Classroom

BEST Online 2021

*3D Virtual Field -
Virtual Robot*

- Online Skills Challenges
- Driver Controlled & Autonomous
- BEST Award & Virtual Robot Time Trials
-  Instant Replay  Highlight Videos

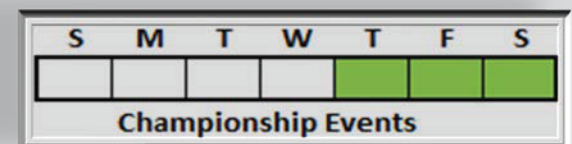
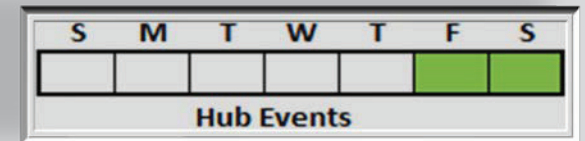
BEST Events



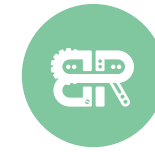
BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- Kickoff Day
 - Unveiling of game, rules and judging schedule
 - Distribution of Kits
- Practice Day
 - At least one practice day on the game field
- Game Day (1-2 days)
 - Head-to-head competition & BEST Award judging
- Championship (2-3 days)
 - Top teams in head-to-head and BEST Award advance
 - Game Day among championship teams

Typically Weekend Events

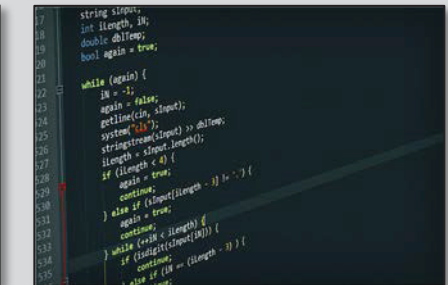
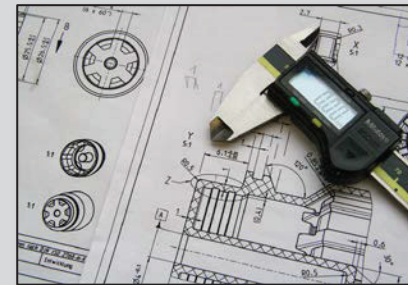
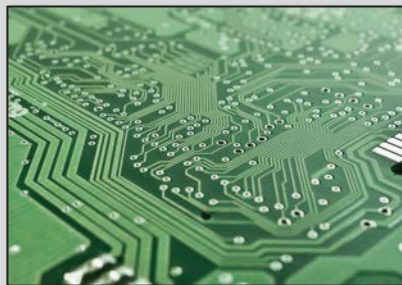
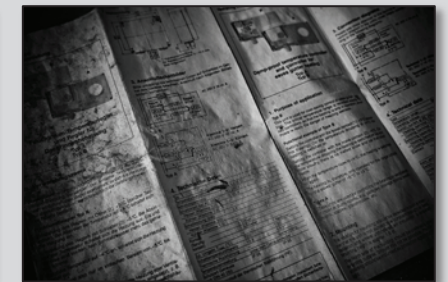
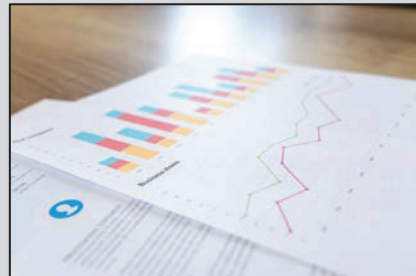
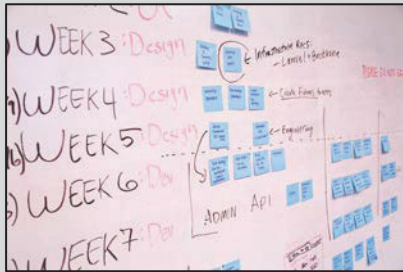


Emphasis is on a complete Product Development



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

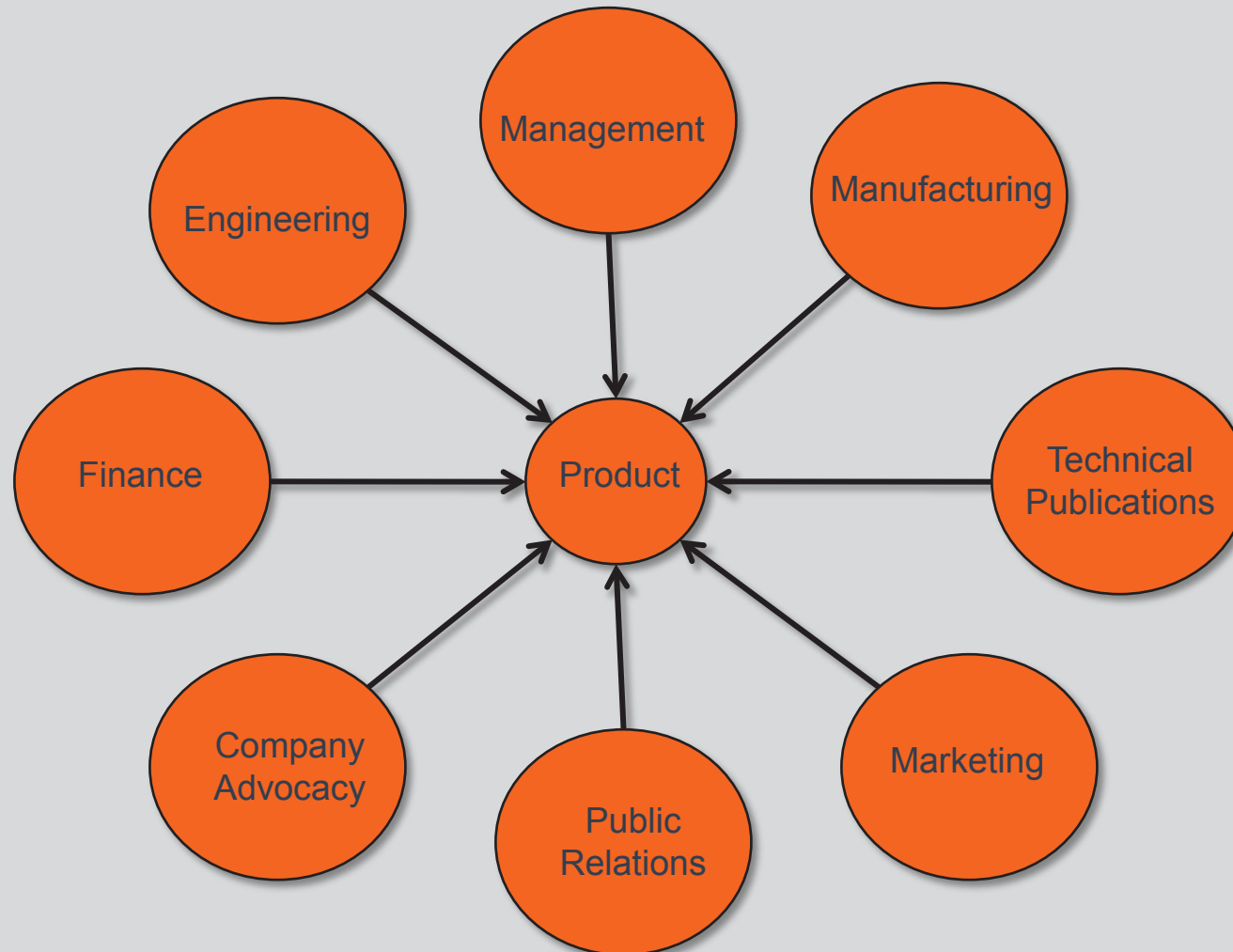
There are many design disciplines involved in a successful product development.



Product Development Disciplines

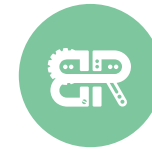


BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY



In The
REAL WORLD

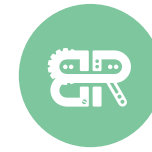
Product Development Disciplines



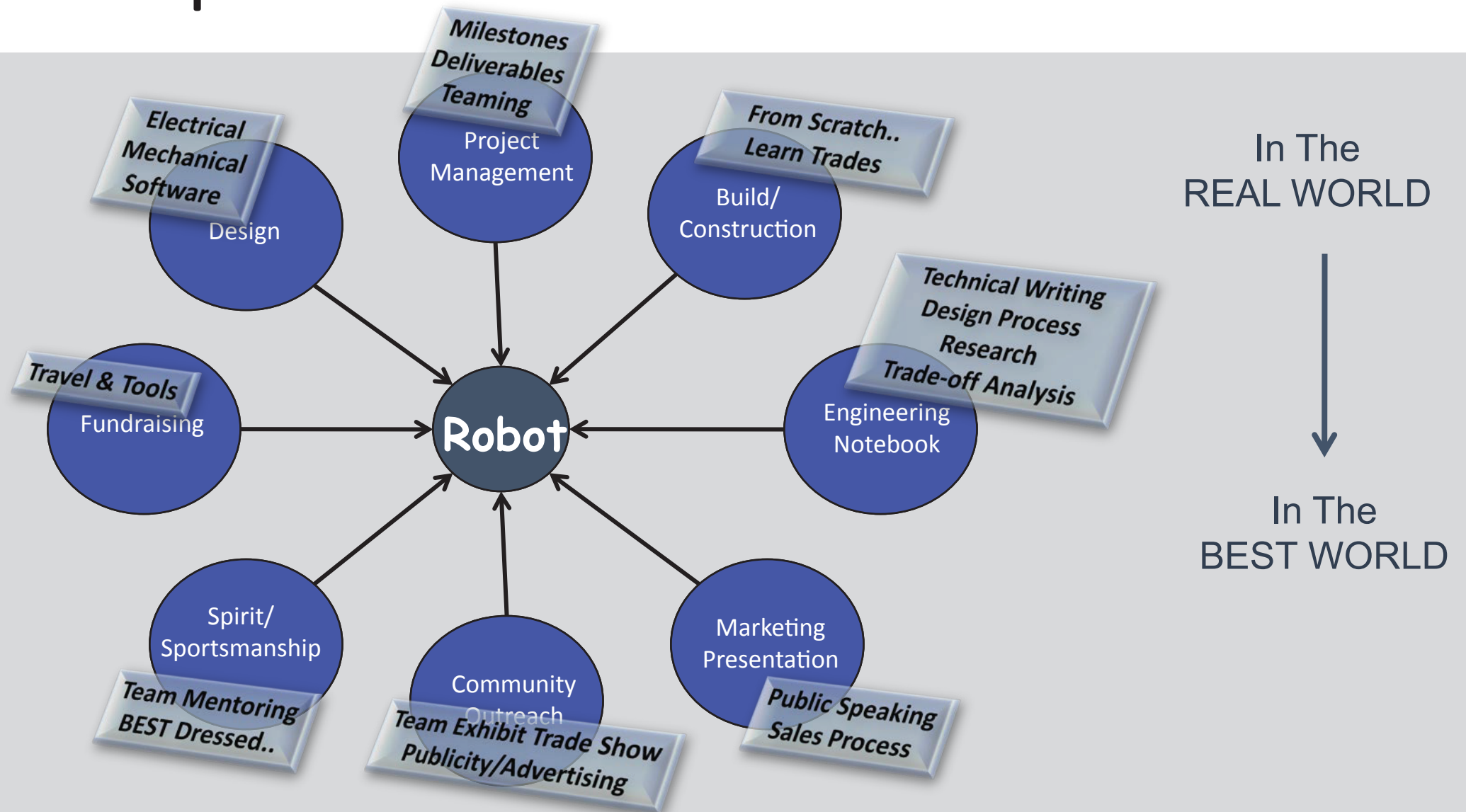
BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

BEST emphasizes each of these design disciplines during the competition

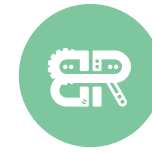
Product Development Disciplines



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

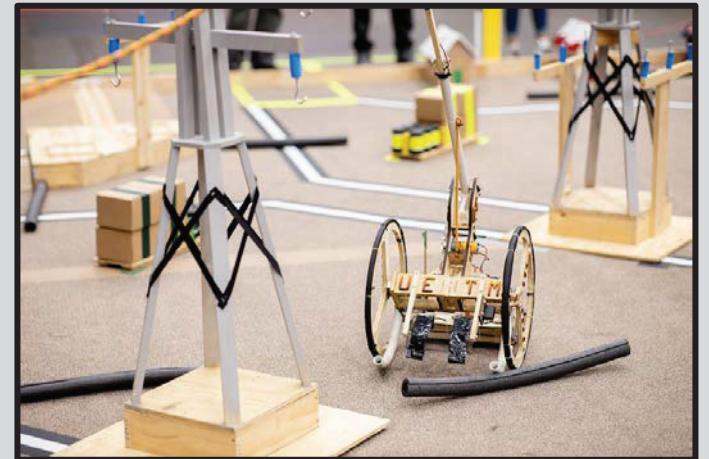


Head-to-Head Competition

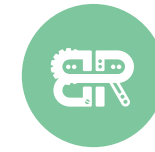


BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- New educational theme/challenge and game field each year
- Challenge and field kept secret until Kickoff Day “unveiling”
- Playing field is typically 24’ x 24’ configuration
- Points awarded for successful completion of tasks
- 4 teams compete in 3-minute matches
- Progression
 - Round robin seeding phase (6-8 matches per team)
 - Wildcard phase (best remaining notebook scores)
 - Semifinals phase (8 or 16 teams)
 - Finals phase (4 teams)



Judged Activities



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

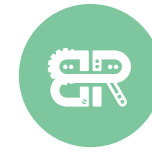
- Teams compete in the following required categories
 - Engineering Notebook
 - Marketing Presentation
 - Team Exhibit
 - Spirit and Sportsmanship
 - Robot Performance



- The BEST Award
 - Best overall score in all 5 categories

- Additional Design Awards
 - Most Robust Design
 - Creative Design
 - Simulink Design Award

The BEST Award

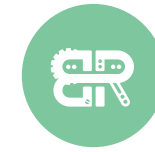


BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- The BEST Award is the “Top Award” in the competition
- Presented to the top 3 teams that best embody the concept of Boosting Engineering, Science and Technology through:
 - Teamwork
 - Diversity of Participation
 - Sportsmanship
 - Positive Attitude and Enthusiasm
 - School/ Community Involvement
 - Creativity
 - Application of the Engineering Design Process



Unique Skills Challenges

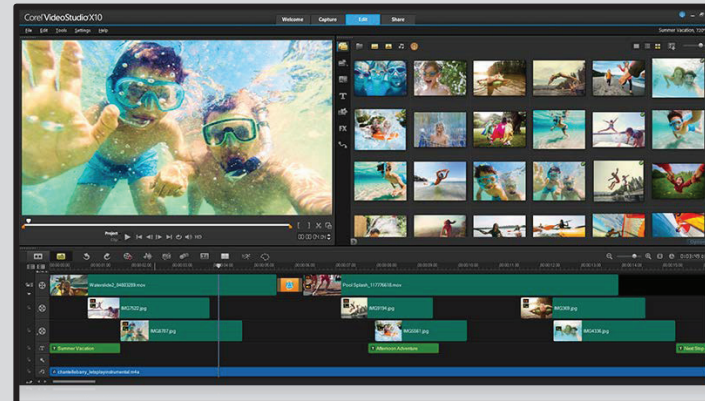


BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

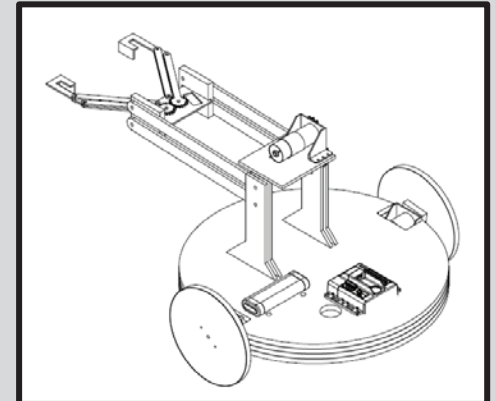
Minecraft Challenge



Video Design Challenge



Engineering Drawings Challenge



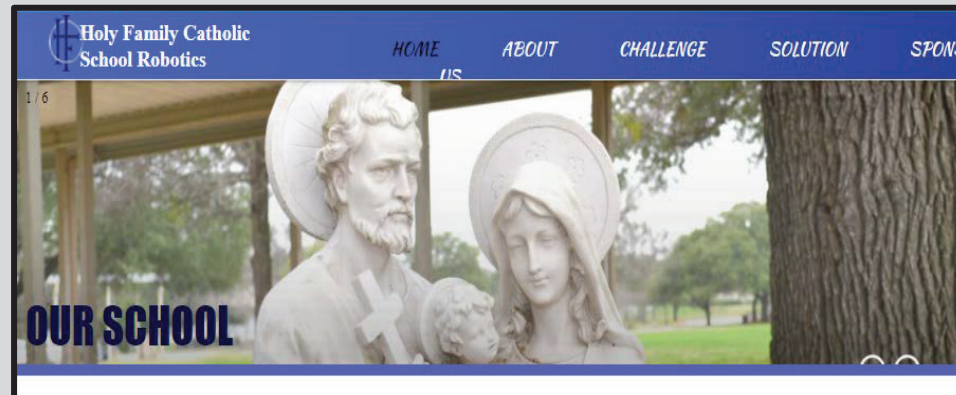
BESTMania IQ Challenge

Game Time Remaining: 4 days, 15 hrs, 15 mins, 48 secs
Question Start Time: 2020-09-13 09:41:18 | Answer Update Time: Pending
Question Number: 2 | Difficulty: Easy | Points: 1000 | Questions Answered: 0/24

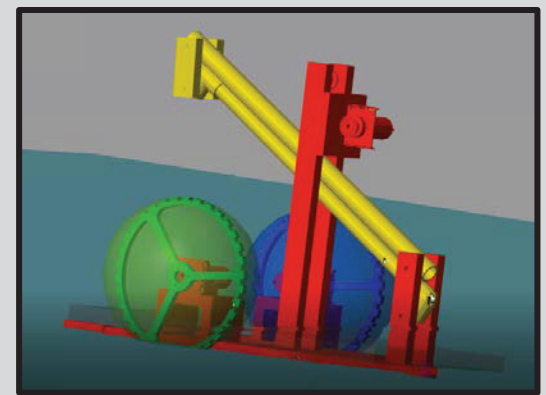
When a typing mistake is made in a source code it is called _____

- (A) A typo
- (B) An algorithm
- (C) A syntax error
- (D) A function
- (E) All of the above

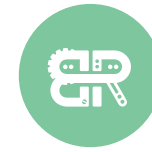
Website Design Challenge



Robot Modeling Challenge



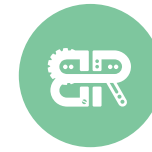
Industry Design Tools Available



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY



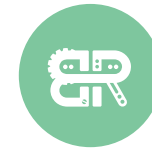
Robotics “Kit” is Provided



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- Returnables Kit
 - Loaned to the school for the duration of the competition
 - Electronics equipment used to power the robot
 - Microcontroller, motors, servos, batteries, sensors, wiring, etc.
- Consumables Kit
 - Expendable raw materials provided to the school
 - Materials used for construction of the robot structure
 - Plywood, PVC, metals, hardware, fasteners, miscellaneous

Basic Design Constraints



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- Teams may only use the materials and quantities provided in the KIT!
- Only two team custom parts may be used
- Final robot must be no larger than 24" x 24" x 24"
- Final robot must weigh no more than 24 lbs.
- Parts, size, weight, and methods are verified prior to Game Day

Student Expectations

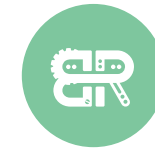


BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- Engineering Design Process
- Design & Construction
- Programming
- Driver-controlled and Autonomous Performance
- Documenting the design
- Marketing the design
- Publicizing BEST Robotics, the team, and the design

BEST National Registry

<https://registry.bestrobotics.org>



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- Team Registration
- Participant Registration
- Competition Management
- Team Management & Access
- National Demographics, Surveys

	STUDENT	GENDER	PREVIOUS PARTICIPANT	GRADE LEVEL	PERMISSION	POST SEASON SURVEY	ATTENDING GAMEDAY	WORKFLOW ACCESS
⊕	Brown, Jim	M	No	8TH	✓	✓	<input type="checkbox"/>	None
⊕	Rocket, Johnny	M	Yes	12TH	✓	✓	<input checked="" type="checkbox"/>	Full Acx
⊕	Young, Halei	F	Yes	12TH	✓	✗	<input checked="" type="checkbox"/>	Full Acx
⊕	Young, Jenny	F	Yes	9TH	✓	✓	<input checked="" type="checkbox"/>	View O
⊕	Young, Valerie	F	Yes	11TH	✓	✗	<input type="checkbox"/>	None

BEST Online Challenge Information

BEST Online Challenge
Nationally, US
Program Type: Online

Post Season Survey Available 12/8/2020

Kickoff ↓ 11/1/2020 8:00am ↑ 11/1/2020 10:00am	Practice Day ↓ 6/1/2021 8:00am ↑ 6/1/2021 2:00pm	Game Day ↓ 7/3/2021 8:00am ↑ 7/3/2021 8:00pm
---	---	---

Online Event 📍 Online Event 📍 Online Event 📍

39%

Team Information

School Dripping Springs High School
Team Name Dripping Springs High School Edit Team Info

Hub BEST Online Challenge (US) (512) 858-3100 940 Highway 290 West Dripping Springs, TX	NCES No. 480000801508 Grade Levels High Team Number #1201 Team Ticker DsHsBt	Student Registered 2 Post Season Survey Completed 0
--	---	--

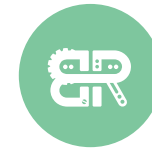
Website Design
Site Diskspace: 0.0 MB
Max Diskspace: 100.0 MB
Website Manager

Skill Competitions
BESTMania by Mathzing
Minecraft by UT Dallas

Drivers Scheduler
Team Scoresheets

You are in Full Access Mode

What Next?



BEST ROBOTICS
BOOSTING ENGINEERING SCIENCE & TECHNOLOGY

- Become a Sponsor
- Register a Team
- Mentor a Team
- Volunteer
- Find an Event

<https://registry.bestrobotics.org>