



2017 Challenge

Your team has been hired to create a new amusement park. However, this new amusement park is making “green” a priority. The owners are working to make the world healthier, cleaner and safer and are creating a fun family park that will inspire others to be environmentally friendly. You will need to create a ride for this new park. Your ride must represent the environmentally friendly approach that the owners are requiring.

Additional Middle School Challenge

Teams competing in the grades 6-8 division will also be asked to present a budget of their project. They will need to inventory each K’Nex piece they use and list a price for each piece. They will need to present their inventory and an overall cost of their project.

Rules:

- A team of 4 students will work together on the project.
- Each project must use at least 1 motor.
- Teams may use up to 1400 pieces. Any pieces, as long as they are K’Nex, may be used.
- Schools must bring their K’Nex kits on the day of the competition.
- Students will have 2 hours to put together their project at the competition.
- No pieces may be brought to the competition already joined.
- Each team will need to bring a journal and a blueprint to the competition.
- Each team will need to prepare a presentation (max 2 minutes) on their model and how they answered the challenge. Middle school students will also need to present their inventory.

Judging Criteria:

- Creativity
- Teamwork
- Challenge Success
- Design
- Presentation

Awards:

- Awards will be given to top three teams in grades 4-5 and grades 6-8
- Additional prizes may be awarded (best blueprint, most creative, etc.)
- Top team in each division at each regional competition will advance to the state competition



Parts of the competition:

Journal

- This should be a diary of the team's journey from start to finish. The journal should answer the following questions:
 - Please describe the process the team used to come up with a solution. What roles did each member have while coming up with the solution?
 - What types of issues arose while working on the project?
 - Did you use any other resources or models to help your team come up with a solution? If so, please elaborate.

Blueprint

- Can be a photo, drawing, cad drawing, etc. Be creative!
- Students may present this on a tablet/ laptop but judges will not award additional points for technology.

Project

- Teams may include a backdrop or artwork but judges will not consider this in their scoring.
- Must use at least 1 motor.
- Cannot exceed 1400 pieces.

Presentation

- Each presentation will be 2 minutes or less
- Students may use a tablet/ laptop but will not be awarded any additional points
- Middle school students must also present their inventory and cost