**STEM Design Challenge**

**Judging Rubric**

**Team #\_\_\_\_\_\_\_\_\_\_ Grade Level \_\_\_\_\_\_\_\_\_\_ Judge #\_\_\_\_\_\_\_\_\_\_\_ Total Score\_\_\_\_\_\_\_\_\_**

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| --- | --- | --- | --- | --- | --- |
|   | **4** | **3** | **2** | **1** | Score (1-4): |
| Design | Creative and thoughtful use of K’Nex pieces. Only K’Nex pieces used. Different pieces used in an interesting way. Project meets all parts of challenge. Obvious that a lot of time was spent designing the structure.  | Different pieces used. Teams somewhat creative in using the pieces available to them. Obvious that time was spent designing the structure. Project meets all parts of challenge.  | Teams somewhat creative in using the pieces available to them. Obvious that the team did not spend much time planning and designing. Project only meets part of the challenge.  | Project uses a lot of the same pieces, not a creative use of the pieces available to them. Design is not successful in meeting the challenge.  |  |
| Journal |

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| The journal is well-written with no grammatical or spelling errors. All team members worked on it. Outside resources were used which could include teachers, professionals, online or written information.  |

 | The journal is well-written with no grammatical or spelling errors. Very few or no outside resources were used in creating their project. All team members contributed. | The journal is lacking detail. Very few or no outside resources were used in creating their project. No evidence of all team members contributing. Information contains some grammatical and/or spelling errors. | The journal contains grammatical and/or spelling errors. No outside resources used. No evidence of all team members contributing.  |  |
| Blueprint | Blueprint is creative and detailed. Clear picture of what students are building. Any text is free of spelling or grammatical errors.  | Blueprint is detailed but lacks creativity. Clear picture of what students are building. Text is free of spelling or grammatical errors. | Blueprint is lacking creativity or detail. Hard to tell from blueprint what structure teams are building. Text contains some spelling and/or grammatical errors. | Blueprint is not detailed and lacks creativity. It does not convey what type of design students are building. Text contains spelling and/or grammatical errors. |  |
| Teamwork  | Team works very well together. Ideas from all members listened to and respected. All team members participated in all aspects of the competition.  | Team works well together. All team members are building the structure. It may seem that not all team members are always involved.  | Some team members are not working on the structure or not doing as much work as others. Blueprint and narrative show a lack of teamwork. | Some team members are not working on the structure. Obvious that all team members did not participate in the design and preparation for the competition. |  |
| Creativity | Teams were creative in coming up with their project design. Time for building was used effectively. | Project design was somewhat creative. Students finish building before time is up which shows that more could have been added to the structure. | Some aspects of structure are creative but more work could have been done in planning and preparation.  | Design lacks creativity. Teams used K’Nex models or kits to create their design. Time was not used effectively. |   |
| Presentation | The team’s presentation was well organized, creative and represented their final product. All team members participated in the presentation.  | Team’s presentation was organized and represented their final product but was not very creative or interesting. | A presentation is given but lacks creativity and organization. More effort could have been given to the presentation. | Team’s presentation was unorganized and lacked focus. Not all team members participated.  |  |

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