STEM Challenge Rubric w/ Checkpoint

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|  | **Level 4****100% A+**Exceeds expectations because | **Level 3****90% A-/B+**Meets expectations because | **Level 2****80% B**Shows progressbecause | **Level 1****75% C**Shows need for improvement because | **Level 0****0%-60% F**Missing or incomplete |
| **Design** | ● considers multiple solutions and chooses the best● clear & detailed | ● considers smaller parts of the problem● clearly communicates the design | ● does not consider all parts of the problem● could communicate more clearly with labels and detail  | ● the primary problem is not addressed● does not communicate design well  | Missing or incomplete |
| **Testing** | ● went beyond criteria and constraints● best in class competition | ● prototype achieved the criteria and constraints | ● prototype *almost* achieved the criteria and constraints | ● prototype did not achieve the criteria and constraints | Missing or incomplete |
| **Communication** | ● clearly connected data and conclusions● suggests modifications | ● shared both *qualitative*  and *quantitative* data● shared conclusions based on the data | ● did not share both *qualitative* and *quantitative* data● needs to connect data and conclusions | ● shared very little data● did not share conclusions based on the results | Missing or incomplete |
| **Line of Learning** **(LOL)** | ● detail and elaboration | ● summarized what I learned● used key vocabulary● made clear why this lab was a valuable experience for me | ● summarized what I learned● used some key vocabulary● could be improved with detail | ● described what I did but did not clearly explain what I learned from the lab | Missing or incomplete |
| **Collaboration** | ● encouraged the success of the entire team● scholarly discussion● clear evidence of the focus skill(s)● area left perfect | ● on task, safe, and following, procedures at *all* times● contributed to the success of *all* team members● thoughtful discussion, area left clean | ● on task, safe, and following procedures *most* times● contributed to the success of the group● on topic discussion● needed reminders to clean area | ● *sometimes* off task or off topic● need to put more effort into the success of the group● area not clean | ●Unsafe● off task● disruptive● materials mishandled● area messy |
| **Checkpoint** | ● thoughtfully completed activity and reviewed work● detailed answers to all questions● asks next questions | ● correctly completed the activity● answered all questions accurately in complete sentences | ● may have rushed or did not follow all directions carefully● answered questions accurately, but not in complete sentences  | ● did not follow directions carefully● did not all answer questions accurately  | Missing or incomplete |

    

 images from <http://stevenrsouthard.com/wp-content/uploads/2013/01/facial-expressions-.jpg>