

2022 CHEME CUBE POSTER RUBRIC



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| Judge's Name: | |
| Team University: | |

POSTER:

| | | | Beginning | Developing | Advanced | Exemplary |
|---|--|-----|---|--|--|--|
| Communicates unique and innovative features of the cube. | | /20 | Lacking unique or innovative components in the cube | Minimal unique or innovative components included in the cube | Unique or innovative components included in the cube and communicated adequately. | Effectively communicates all unique and innovative features of the cube |
| Effectively communicate technical content including cube design description, explanation of chemistries (reactions, separations, etc.), drawings and testing results. | | /20 | Communicates minimal technical elements | Communicates some technical elements of the cube design | Communicates many technical elements of the cube design but are missing some elements. | Effectively communicates all technical elements including drawings and testing results. |
| Highlights PI and MCPI elements | | /20 | Lacks firm understanding of PI or MCPI elements | Communicates some PI and MCPI elements | Communicates multiple PI and MCPI elements | Clearly communicates PI and MCPI concepts and clearly describes elements in cube; demonstrated advanced understanding |
| Accurately calculates, and includes, a breakdown of the total capital equipment costs (including manufacturing costs). | | /10 | Little to no cost information included | Some cost information included | Total capital equipment costs calculated; not entirely complete and/or accurate | Accurately and completely calculates the total capital equipment costs |
| Describes safety features/inherently safer design concepts applied to Cube | | /20 | Minimal description of safety features and ISD concepts | Communicates some safety features/ISD concepts | Communicates multiple safety features/ISD concepts | Clearly communicates all safety features/inherently safer design concepts applied to Cube; demonstrates advanced understanding |
| Reference material and data acknowledged appropriately | | /10 | Minimal reference material | Some reference material data acknowledged; not all appropriately | Most reference material and data acknowledged appropriately | All references and data properly acknowledged |

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|--------------|-------------|
| TOTAL | /100 |
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