

***You Be The Chemist* Challenge® Competition
Virtual Video and Storyboard Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ACTIVITY** | **Exemplary** | **Proficient** | **Partially Proficient** | **Incomplete** |
| **Explanation of** **Core Concept****25% weight** | **3 points*** All content is accurate
* Clear explanation of concept
* Clear description of particle behavior
* Clear explanation of how particle behavior contributes to observable properties
 | **2 points*** All content is accurate
* Clear explanation of concept
* Some description of particle behavior
* Attempt to explain how particle behavior contributes to observable properties
 | **1 point*** Most content is accurate

-AND-* Clear explanation of concept

-OR-* Clear description of particle behavior -OR-
* Explanation of both but confusing
 | **0 points**Multiple errors in scientific content. Explanation is limited and/or very difficult to follow.  |
| **Explanation of****Phenomena****20% weight** | **3 points*** At least 4 different observable phenomena that illustrate core concept are identified
* Each phenomenon has connected visuals that aid understanding
* Each phenomenon clearly explained using core concept
 | **2 points*** At least 3 different observable phenomena w/ visual demonstration
* Attempt is made to explain phenomena using central concept

-OR-* At least 3 observable phenomena are described but not all have visuals
* Attempt made to explain phenomena using central concept
 | **1 point*** At least 1-2 observable phenomena w/ visual demonstration
* Attempt is made to explain phenomenon using central concept

-OR-* At least 2 observable phenomena are described but not illustrated
* Attempt is made to explain phenomena using central concept.
 | **0 points**There are no phenomena illustrated/very little effort made to describe a phenomenon; little or no attempt at explanation |
| **Explanation of Problem and Solution** **20% weight** | **3 points*** Clear description of problem from students’ everyday life or that affects their community
* Clear explanation of how problem can be solved using knowledge of central concept
 | **2 points*** Clear description of problem from students’ everyday life or that affects their community
* Explanation of how problem can be solved using knowledge of central concept is somewhat confusing OR clear explanation that only relates to central concept
 | **1 point*** Some description of problem that may not be connected to students’ everyday lives or their community OR may seem fictitious or contrived
* Some attempt to explain how the problem can be solved where something about central concept is at least mentioned
 | **0 points**No problem described or problem seems unrealistic. Very little effort is made to explain how to solve the problem.  |
| **Clarity and Organization****15% weight** | **3 points*** 3 required explanations in video flow together into a single whole
* Video is between 4-5 minutes
* Video has opening and closing titles that are ≤10 seconds each
* Video is easy to follow and includes multiple visual elements (can be acting, dancing, video clips, drawings, or otherwise) for each required explanation
* There is no irrelevant content
 | **2 points*** Some attempt made to connect 3 required explanations in video
* Video is between 3-6 minutes
* Video has opening and closing titles
* Video is usually easy to follow and includes at least one visual element (can be acting, dancing, video clips, drawings, or otherwise) for each required explanation
* There is little irrelevant content.
 | **1 point*** 3 required explanations in video may not be connected
* Video is between 2-7 minutes
* Video has either opening or closing titles
* Video is at least sometimes easy to follow and includes at least one visual element (can be acting, dancing, video clips, drawings, or otherwise)
* There may be some irrelevant content.
 | **0 points**Video is less than 3 minutes and/or may be difficult to follow/ may not contain any visual elements to aid understanding/ may be a lot of irrelevant content that distracts from focus  |
| **Storyboard** **10% weight** | **3 points*** Storyboard illustrates video presentation structure with thumbnail sketches or clear visuals for each scene
* Clear descriptions of dialogue or narration text included
* At least one panel/scene
 | **2 points*** Storyboard includes some visual for each video scene
* Some text related to dialogue present for each scene
* At least one panel/scene
 | **1 point*** Only storyboard w/out notes OR notes and dialogue are w/out storyboard visuals provided

-OR- * Storyboard and notes/dialogue provided do not match video.

-OR-* Missing 1-3 panels
 | **0 points**There is no evidence of a storyboard or script |
| **Quality and Collaboration****10% weight** | **3 points*** ALL material is original or free to use according to copyright rules/regulations
* Audio is clearly audible and there is little to no background noise
 | **2 points*** ALL material is original or free to use according to copyright rules/regulations
* There may be some background noise, but it does not affect the ability to understand audio
 | **1 point*** Almost all material is original or free to use according to copyright rules/regulations
* Background noise may sometimes interfere with ability to understand audio
 | **0 points**>25% of video content does not follow copyright rules/regulations; video is very sloppy/may be difficult to hear at all/background noise may consistently interfere with ability to understand audio |

