

活动	精通	熟练	良好	一般
解释 核心概念 25%	3分 <ul style="list-style-type: none"> • 所有内容都是准确的 • 对概念解释清晰准确 • 粒子行为描述清晰 • 明确解能够清楚解释粒子行为如何有助于观察物理属性并且和主题概念有关 	2分 <ul style="list-style-type: none"> • 所有内容都是准确的 • 对概念解释清晰 • 对粒子行为有一些描述 • 尝试解释粒子行为如何促进可观察到的特性并且和主题概念有关 	1分 <ul style="list-style-type: none"> • 大多数内容是准确的 -并且- • 对概念解释清晰 -或- • 对粒子行为解释清晰 -或- • 解释粒子行为如何促进可观察到的特性并且和主题概念有关，但不准确 	0分 关于科学内容中有多重错误。解释是有限的且/或很难理解。
解释 现象 25%	3分 <ul style="list-style-type: none"> • 至少有 3 种不同的能够解释核心概念的 observable 现象 • 每个现象都能与视觉化结合以帮助理解 • 每个现象都用核心概念和粒子行为进行了清晰地解释 	2分 <ul style="list-style-type: none"> • 至少列举出 2 种不同的 observable 现象并且有/没有视频展示 • 尝试用中心概念来解释现象 -或- • 至少描述了 2 个 observable 现象，但不是所有解释都可可视化 • 尝试用中心概念和粒子行为来解释现象 	1分 <ul style="list-style-type: none"> • 至少有 1 个 observable 现象并且有/没有视频展示 • 尝试用中心概念来解释现象 -或- • 至少描述了 1 个 observable 现象，但没有进行说明 • 尝试用中心概念来解释现象但没有解释粒子行为 	0分 现象没有进行说明/描述很少；很少或根本没有尝试解释
问题和解 决方法的 解释 15%	3分 <ul style="list-style-type: none"> • 选择的职业和主题相关 • 清晰地解释了该职业的教育发展 • 清晰地解释了该职业的职责 	2分 <ul style="list-style-type: none"> • 选择的职业和主题相关 • 尝试解释该职业的教育发展，但解释不充分或/且不清晰 • 尝试解释该职业的职责，但解释不充分或/且不清晰 	1分 <ul style="list-style-type: none"> • 选择的职业和主题较相关 • 尝试解释该职业的教育发展，但解释不清晰或/且不相关 • 尝试解释该职业的职责，但解释不清晰或/且不相关 	0分 没有职业道路的描述或描述了但解释很少
清晰度和 组织结构 15%	3分 <ul style="list-style-type: none"> • 视频中的 3 个所需解释的现象和职业道路能够连接成一个整体 • 视频时长在 3-5 分钟之间 • 视频的开头和结尾部分分别 ≤ 10 秒 • 结尾包括学校姓名和学生姓名以及成员的角色 • 视频易懂，且每个解释的部分包括多个视觉元素（表演、舞蹈、视频剪辑、图画或其他） • 没有无关的内容 	2分 <ul style="list-style-type: none"> • 尝试连接视频中 3 个所需解释的现象和职业道路 • 视频时长在 3-5 分钟之间 • 视频有开头和结尾部分，但超过 10 秒 • 结尾包括学校姓名和学生姓名以及成员的角色 • 视频大部分很容易理解，并且每个解释的部分至少包括一个视觉元素（表演、舞蹈、视频剪辑、图画或其他） • 几乎没有不相关的内容。 	1分 <ul style="list-style-type: none"> • 视频中 3 个所需解释的现象无法连接 • 视频长度在 3-5 分钟之间 • 视频没有开头或结束部分 • 视频至少有能容易理解的部分，并且至少包括一个视觉元素（表演、舞蹈、视频剪辑、图画或其他） • 可能有一些不相关的内容。 	0分 视频长度不在 3-5 分钟和/或难懂/不包含任何视觉元素/有很多不相关的内容 注：如果视频不在 3-5 分钟，该视频不得分

<p>故事展板</p> <p>10%</p>	<p>3分</p> <ul style="list-style-type: none"> • 故事展板通过草图或清晰的视觉效果说明视频结构 • 有关于对话或叙述文本的清晰描述 • 至少有一个展板/场景 	<p>2分</p> <ul style="list-style-type: none"> • 故事展板中每个视频场景都包含一些视觉效果 • 有关于对话的内容 • 至少有一个展板/场景 	<p>1分</p> <ul style="list-style-type: none"> • 只有故事展板，有/没有任何注释；或者只有对话和注释，有/没有提供可视化的故事展板 -或- • 故事板中的笔记/对话与视频内容不匹配。 -或- • 缺少 1-3 块展板 	<p>0分</p> <p>没有故事展板或脚本</p>
<p>内容质量与协作</p> <p>10%</p>	<p>3分</p> <ul style="list-style-type: none"> • 所有材料均为原创或根据版权规则/法规免费使用 • 音频清晰可听，且几乎没有噪音 • 结尾引文以 APA 或 MLA 格式 • 所有团队成员在视频中都有角色 	<p>2分</p> <ul style="list-style-type: none"> • 所有材料均为原创或根据版权规则/法规免费使用 • 可能有一些噪音，但不影响理解音频 • 结尾引文以 APA 或 MLA 格式 • 大多数团队成员在视频中都有角色 	<p>1分</p> <ul style="list-style-type: none"> • 几乎所有材料均为原创或根据版权规则/法规免费使用 • 有噪音，且有时可能会干扰理解音频 • 结尾有引文但没有以 APA 或 MLA 格式 • 有限的团队成员在视频中有角色 	<p>0分</p> <p>视频内容不遵循版权规则/法规；没有引文；视频非常粗糙/很难听清音频/背景噪音持续干扰理解音频；视频由一人主导完成</p>

CRITERION	Exemplary	Proficient	Partially Proficient	Incomplete
Explanation of Core Concept 25% weight	3 points <ul style="list-style-type: none"> All content is accurate Clear and accurate explanation of concept Clear and accurate description of particle behavior Clear explanation of how particle behavior contributes to observable properties and relates to concept and theme 	2 points <ul style="list-style-type: none"> All content is accurate Clear explanation of concept Some description of particle behavior Attempt to explain how particle behavior contributes to observable properties and relates to concept and theme 	1 point <ul style="list-style-type: none"> Most content is accurate -AND- Clear explanation of concept -OR- Clear description of particle behavior -OR- Explanation of how particle behavior contributes to observable properties and relates to concept and theme, but is confusing 	0 points <p>Multiple errors in scientific content. Explanation is limited and/or very difficult to follow.</p>
Explanation of Phenomena 25% weight	3 points <ul style="list-style-type: none"> At least 3 different observable phenomena that illustrate core concept are identified Each phenomenon has connected visuals that aid understanding Each phenomenon clearly explained using core concept and particle behavior 	2 points <ul style="list-style-type: none"> At least 2 different observable phenomena w/ visual demonstration Attempt is made to explain phenomena using central concept -OR- At least 2 observable phenomena are described but not all have visuals Attempt made to explain phenomena using central concept and particle behavior 	1 point <ul style="list-style-type: none"> At least 1 observable phenomenon w/ visual demonstration Attempt is made to explain phenomenon using central concept -OR- At least 1 observable phenomenon is described but not illustrated Attempt is made to explain phenomena using central concept but does not explain particle behavior. 	0 points <p>There are no phenomena illustrated/very little effort made to describe a phenomenon; little or no attempt at explanation</p>
Explanation of Career and Training Path 15% weight	3 points <ul style="list-style-type: none"> Chosen career is related to theme Clear explanation of education and training path for career Clear description of job duties of chosen career path 	2 points <ul style="list-style-type: none"> Chosen career is related to theme Attempt is made to explain education and training path for career, but explanation is not fully fleshed out and/or may be somewhat confusing Attempt is made to describe job duties, but description is not fully fleshed out and/or may be somewhat confusing 	1 point <ul style="list-style-type: none"> Chosen career is somewhat related to theme Attempt to explain education and training path for career is confusing and/or irrelevant Attempt to describe job duties is confusing and/or irrelevant 	0 points <p>No career path is described, or career path is identified with little to no explanation</p>
Clarity and Organization 15% weight	3 points <ul style="list-style-type: none"> 3 required phenomena and identified career path in video flow together into a single whole Video is between 3.0 and 5.0 minutes Video has opening and closing titles that are ≤10 seconds each Closing titles include school name and student names (first names and last initials) and roles Video is easy to follow and includes multiple visual elements (can be acting, dancing, video clips, drawings, or otherwise) There is no irrelevant content 	2 points <ul style="list-style-type: none"> Some attempt made to connect 3 required phenomena and career path in video Video is between 3.0 and 5.0 minutes Video has opening and closing titles that may be longer than 10 seconds Closing titles include school name and student names (first names and last initials) and roles Video is usually easy to follow and includes at least one visual element (can be acting, dancing, video clips, drawings, or otherwise) There is little irrelevant content. 	1 point <ul style="list-style-type: none"> 3 required explanations in video may not be connected Video is between 3.0 and 5.0 minutes Video has either opening or closing titles that may be missing information 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 <p>Video does not fall within 3.0 - 5.0-minute time requirements/may be difficult to follow/may not contain any visual elements that aid understanding/may not include video titles/may be irrelevant content that distracts from focus</p> <p>Please note that if your video is NOT between 3 minutes and 5 minutes in length, your video will not be scored</p>
Storyboard 10% weight	3 points <ul style="list-style-type: none"> 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 per scene 	2 points <ul style="list-style-type: none"> Storyboard includes some visual for each video scene Some text related to dialogue present for each scene At least one panel per scene 	1 point <ul style="list-style-type: none"> 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 <p>There is no evidence of a storyboard or script</p>
Quality and Collaboration 10% weight	3 points <ul style="list-style-type: none"> 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 Closing title includes citations in APA or MLA format ALL team members have a significant role in video 	2 points <ul style="list-style-type: none"> 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 Closing title includes citations in APA or MLA format Most of the team members have a role in video 	1 point <ul style="list-style-type: none"> Almost all material is original or free to use according to copyright rules/regulations Background noise may sometimes interfere with ability to understand audio Closing title includes citations, but citations may not be in APA or MLA format Limited number of team members have a role in video 	0 points <p>Video content does not follow copyright rules/regulations; citations are not included; video is very sloppy/may be difficult to hear at all/background noise may consistently interfere with ability to understand audio; video dominated by one individual</p>