



Video Criteria:

The *NASA Exploration Design Challenge Video Rubric* will be used by evaluators to review and score each submitted video. Videos should showcase your radiation shield prototype and include the following information.

- 1) Teams **MUST** use the following script to introduce their video:
 - a. “This is team (team name) and we chose the NASA Exploration Design Challenge. The title of our video is _____.”
 - b. Submissions that do not follow this exact script will be disqualified. Do not identify the name of any student, teacher, school, group or city/region in your video.
- 2) State the problem.
- 3) Identify three or more properties tested for each material.
- 4) Show how each property was tested.
- 5) Test three or more types of materials.
- 6) Based on your tests, explain your best idea for the radiation shielding. Be sure to give reasons for your choice.
- 7) Include drawings of your design.
- 8) Include photos or video of your work as you build and test the radiation prototype.
- 9) Explain your results.
- 10) Based on your results and new information you learned about radiation, acceptable materials, or Orion, show any changes that were made to improve your radiation shield.
- 11) Identify any information provided by the NASA subject matter expert that helped you in your design or testing.
- 12) Total length of video should be 3 – 5 minutes.
- 13) Upload the Video to YouTube and email the link and entry information to NASA. For detailed directions, see the *Technical Requirements for Video Submission* document which can be found on the *Submit Student Videos* Web page.



Video Rubric:

This rubric will be used by evaluators to review and score each video. Each category will be scored 0-3 points. Totals for each column will be added for a final score.

Rubric Category	Good 3 points	Satisfactory 2 points	Poor 1 point	Missing 0 points
Problem statement	Problem is stated clearly with additional words and/or images.	Problem is stated but no additional images are included.	Problem statement is incomplete.	No problem statement is included.
Properties	More than 3 properties are identified.	3 properties are identified.	1 or 2 properties are identified.	No properties are identified.
Property Testing	Demonstrates how more than 3 properties are tested.	Demonstrates how 3 properties are tested.	Demonstrates how 1 or 2 properties are tested.	No demonstration of property testing.
Materials	More than 3 materials are selected for testing.	3 materials are selected for testing.	1 or 2 materials are selected for testing.	No materials were tested.
Best idea	Clear reasons based on testing and research are given for the radiation shielding design.	Clear reasons based on testing are given for the radiation shielding design.	Reasons are given but are not based on testing.	No reasons are given.
Drawings	At least 3 drawings of the design are included; 1 of the drawings shows a cross-section of materials.	At least 3 drawings are included.	1 or 2 drawings are included.	No drawings are included.
Photos or Video	The build and test phase are included in the video with additional still shots added.	The build and test phase are included in the video.	Only the build or only the test phase is included in the video.	No photos or video showing the build or test phase are included.
NASA Subject Matter Expert (SME) Comments	Chat with NASA SME is discussed and demonstrates how the feedback was incorporated into design or testing.	Chat with NASA SME is discussed and gives details about the feedback they provided.	Chat with NASA SME is discussed in only general terms.	No mention of NASA SME interaction is included.
Column Score				

TOTAL SCORE _____