

2021 RoboPlay Video Competition

Guiding Rubric

(1) Best Storyline

	0	1	2	3	4
Setting	There is no discernible setting.	The setting is unclear or vague.	The setting is clear but is missing some visual and contextual details.	The setting is clear and includes an adequate amount of visual and contextual details.	The setting is clear and there are many supporting visual and contextual details.
Plot Development	There is no discernible plot.	The story needs extensive editing. It is too long or too short to be interesting.	The story needs more editing. It is noticeably too long or too short in more than one section.	The story composition is typically good, though it seems to drag somewhat OR needs slightly more detail in one or two sections.	The story is told with exactly the right amount of detail throughout. It does not seem too short nor does it seem too long.
Conflict and Resolution	There is no conflict nor resolution.	Some conflict is discernible	It is fairly easy for the viewer to understand the problem the main characters face but it is not clear why it is a problem.	It is fairly easy for the viewer to understand the problem the main characters face and why it is a problem.	It is very easy for the viewer to understand the problem the main characters face and why it is a problem.
Theme	No theme is present in the video.	The theme is present but vague and inconsistent.	The theme is present but vague.	The theme is clear but inconsistent.	The theme is clear and consistent.
Character Development	No characterization is evident in the video.	It is hard to tell who the main characters are and there is little or no use of direct or indirect characterization techniques.	The main characters are represented using few direct and indirect characterization techniques. The viewer knows very little about the characters.	The main characters are represented and described using some direct and indirect techniques. Most would have some idea of what the characters are like.	The main characters are represented and clearly described using a variety of direct and indirect techniques. Most could describe the characters accurately.
Creative use of Props	No props are used in video.	Only one or a few props are used in the video - but not creatively.	One or a few props are used creatively.	Most of the props are used creatively.	All props are used in creative ways.
Script - Dialogue	No script is present.		Video dialogue does not match the script exactly.		Video dialogue matches the script exactly.
Script - Direction	No script is present.		Robot movements do not match the script exactly or stage direction is missing.		Robot movements match the script exactly.

(2) Most Interesting Task

	0	1	2	3	4
Technical Difficulty	No elements of the task are difficult.	Some elements of the task are difficult but video lacks evidence of effort	Some elements of the task are difficult but shows evidence of effort.	Task is difficult but lacks evidence of effort.	Task is difficult and shows evidence of great effort.
Innovation	Task is not original, advanced, or new.	Task exhibits one of the following elements: interesting, advanced, original, or new.	Task exhibits two of the following elements: interesting, advanced, original, or new.	Task exhibits three of the following elements: interesting, advanced, original, or new.	Task exhibits all of the following elements: interesting, advanced, original, or new.
Creative use of Robots	Robots are not used in a creative way.	Some robots are used creatively but use is not innovative.	Some robots are used creatively in an original way.	Use of robots is creative but not new.	Creativity of robot movement is apparent and new.
Creative Use of Props	No attachments are used in the video.	One attachment is used in the video but not creatively.	One attachment is used creatively.	More than one attachment is used but only one is used creatively.	All attachments are used in creative ways.
Documentation/ Description	No documentation is present.	Documentation names the task but provides no description.	Documentation names the task and provides a brief summary of the task.	Documentation provides a clear or detailed description but lacks purpose.	Documentation provides a clear and detailed description of the task and purpose.
Script - Dialogue	No script is present.		Video dialogue does not match the script exactly.		Video dialogue matches the script exactly.
Script - Direction	No script is present.		Robot movements do not match the script exactly or stage direction is missing.		Robot movements match the script exactly.

(3) Best Choreography

	0	1	2	3	4
Synchronization with Music	No music present in video.	Music is used but robots do not move with it.	Some of the robot motion is synced with the music.	Most of the robot motion is synced with the music.	All robot motion perfectly syncs with music.
Technical Difficulty	Robots don't move.	No technical difficulty is present. All robots are following basic movements.	One or two non-basic movements performed.	Robots perform moderately difficult tasks.	Robot motion clearly displays technical difficulty and creative thinking.
Interaction with Environment	Robots do not interact with the environment.	Robots have little interaction with the environment.	Environmental interaction is clear but takes away from the overall flow of the video or is not original.	Environmental interaction is clear and original but movement detracts from the overall flow of the video.	Environmental interaction is clear and original and movement is fluid.
Interaction between Robots	No robot interaction or only one robot is used.	Robots have little interaction with each other and interaction is not original.	Robot interaction is clear but takes away from the overall flow of the video or is not original.	The robots clearly interact with each other and interaction is original but interaction takes away from the overall flow of the video.	Robot interaction is clear and original and movement is fluid.

(4) Best Custom Designed Part (If custom part is indicated)

	0	1	2	3	4
Complexity	Part is not complex.	Part is moderately complex but lacks creativity.	Part is moderately complex and is used	Part is complex but lacks creativity.	Part is complex and shows creativity.
Functionality	Part has no functional purpose.	Part has little functional purpose.	Part has some functional purpose but is not unique.	Part has some functional purpose and is somewhat unique.	Functionality of part is clear and unique.
Documentation	No documentation.	Simple description or drawing of the custom part.	A basic description and drawing of the custom part and reproducibility would be difficult.	A good description and drawing of the custom part are provided but the part may be difficult to reproduce.	Excellent description of the custom part and clean, clear drawings are provided. Part would be easily reproducible.

(5) Best Film Promoting Computational Thinking

	0	1	2	3	4
Code Precision and Brevity	Code is very short and simple.	Code is short and simple and difficult to read.	Code is awkward and hard to follow, but can be read.	Code is precise or easy to follow but not both.	Code is clean, concise, and easy to follow.
Code Comments	No comments beyond required headers.	Sparse and incomplete comments.	Comments are sparse but when present they are complete.	Many comments but lacking in detail or information.	Very well commented. Detailed and informative.
Complex Structures	Lacks use of complex structures.	Uses at least one function, loop, or branching logic.	Uses at least two of functions, loops, or branching statements.	Uses at least one of each functions, loops, and branching statements.	Uses multiple of each functions, loops, and branching logic.
Completeness of Ch Code	Robot movements do not correlate to code.	Robot movements somewhat correlate to code.	Most robot movements correlate to code.	All robot movements are represented in the code.	All robot movements are innovatively represented in the code.

(6) Best Application of Advanced Robotics and Electronics

In order to be considered for this award, videos must include use of Arduino or Raspberry Pi.

	0	1	2	3	4
Advanced Electronics	No advanced electronics are used	Arduino or Raspberry Pi are used but not well; no sensors are used	Arduino or Raspberry Pi is integral to the video	Sensors are used with Arduino or with Raspberry Pi	Sensors and Arduino or Raspberry Pi are used and are well-integrated into the video
Task	No discernable task is performed	A task is performed but not relevant to the Arduino or Raspberry Pi	Task has some relevance to Arduino or Raspberry Pi	Task is clearly relevant to sensors and Arduino or Raspberry Pi	Sensors and Arduino or Raspberry Pi are an integral part of the task
Complexity of Ch Code	Lacks use of complex structures; code is very simple.	Code is simple but has at least one function, loop, or branching logic.	Code is readable and has two of functions, loops, or branching statements.	Code is easy to follow and contains at least one of each of functions, loops, and branching statements.	Code is clean and contains multiple of each of functions, loops, and branching logic
Quality of Ch Code	Code has no comments and is not complete.	Code has minimal comments but does not entirely correlate to video.	Code does correlate to the video but is not explained in comments	Code correlates to the video and is explained in comments	Code correlates to the video innovatively and is explained thoroughly in comments

(7) Best Theme of the Year (Adventure and Exploration)

	0	1	2	3	4
Storyline, as it relates to Theme of the Year	Theme of the Year is not discernible in the storyline.	Theme of the Year is present, but isn't integrated into the storyline.	Theme of the Year is apparent in the storyline.	The storyline features Theme of the Year as an important component.	The storyline relies heavily on the Theme of the Year and the two are creatively integrated with one another.
Tasks related to Theme of the Year	Theme of the Year is not discernible in the tasks performed.	Theme of the Year is present but is not related to any of the tasks performed.	A basic task related to the Theme of the Year is performed.	A creative or difficult task is related to the Theme of the Year.	Robots repeatedly perform tasks related to the Theme of the Year that are creative and/or difficult.
Choreography related to Theme of the Year	Theme of the Year is not discernible in the choreography.	Theme of the Year is present but is not related to any choreography.	Choreography is related to the Theme of the Year in some way.	Robots perform moderately difficult tasks related to Theme of the Year.	Robots interact and perform difficult tasks related to Theme of the Year.
Setting, as it relates to Theme of the Year	Theme of the Year is not discernible in the setting.	Theme of the Year is present, but the setting is not developed.	The environment is related to the Theme of the Year in a basic way.	Theme of the Year is integral to the setting, but is lacking in creativity or design effort.	The setting is carefully detailed and designed to fit with the Theme of the Year.