

# Explore PT & Create PT Checklists

(Note: if you are unsure of any of these items, go back and read further explanations on the Explore PT or Create PT Survival Guides; both located on Explore Performance Task or Create Performance Task webpages on Parslow's website)



## Explore PT Checklist

### Computational Artifact Checklist:

- Name of innovation appears in the artifact
- Shows the purpose of the innovation
- Shows the function of the innovation
- Primarily non-textual (Labels on a diagram: ok. A slide with bullet list of text: not ok).
- Uses an acceptable file type. One of: .mp3, mp4, .wmv, .avi, .mov, .wav, .avi, .aif, or .pdf format.
  - PDF files must not exceed **3 pages** -- **Video** or audio files must not exceed **1 minute** in length
  - PDF File is less than 30 Megabytes

### Written Responses - 2a. Response Checklist (Note: Written Responses are saved in a PDF Format)

- Name of Computing Innovation
- The purpose of innovation - the intended goal or objective of the innovation
- The function of innovation - how the innovation works (for example, consumes and produces data)
- How artifact describes purpose, function and / or effect of the innovation
- Suggested Word Count of no more than 100 words
- Cite any references used

### Written Responses - 2b. Response Checklist

- Describe the tool you used
- Describe the development process
- Mention if it's a new artifact or combining artifacts
- Cite sources for artifacts used
- Suggested Word Count of no more than 100 words

### Written Responses - 2c. Response Checklist

- Suggested Word Count of 250 words. (Try 2 paragraphs: 1 for the beneficial and 1 for the harmful effect)
- Clearly stated one beneficial effect AND one harmful effect
  - Why it is a beneficial or harmful effect
  - Who (the group) benefiting or being harmed
- Is the harm \*really\* a data security/privacy/concern? If so, rethink.
- DO NOT USE THESE for harmful or beneficial effects: (1) Hacking (2) Cost (3) Your personal opinion
- Cite your sources for where you found the beneficial and harmful effects.

### Written Responses - 2d. Response Checklist

- Describe the data the innovation uses as input
  - Make your description of the data as specific and digital as possible. Explain the actual file types (e.g. .mp3 or .jpg) used by the innovation or the type of binary data used (e.g. numeric, string, rgb pixel)

- Describe how the innovation transforms data and produces output
  - Make your description as specific as possible. Describe the way the input data is used in calculations or transformed (e.g. by an algorithm).
  - Make your description of the output data as specific and digital as possible. Explain the actual file types (e.g. .mp3 or .jpg) produced by the innovation.
  - If the output of the innovation is user-facing (e.g. images on a screen, sound from a speaker, a message sent to a phone) you may SEPARATELY include that information as well.
- Describe one data security, data privacy, or data storage concern
- Cite a source for where you found info about (1) how it works (2) security concern
- Suggested Word Count of 250 words

### Written Responses - 2e. Response Checklist

- You have at least 3 sources cited
- You've cited the source for *any* image or other element you used in your computational artifact (and list which ones in response 2b).
- You've included references to your sources from *within* the text of the written responses 2a-d where appropriate.

## Create PT Checklist

### Video

- Video runs continuously (it cannot be a series of screenshots)
- Video is less than 60 seconds long and less than 30MB in size
- Video Format must be one of the following: .mp4, .wmv, .avi, or .mov
- Video demonstrates one running feature of the program

### Written Responses - Response 2a Checklist (Note: Written Responses are saved in a PDF Format)

- Response identifies the programming language used
- Identifies the purpose of the program
- Describes the feature(s) shown in the video and their connection to the purpose of the program
- May be audio commentary in your video. Carefully follow this checklist even if you use audio commentary.

### Written Responses - Response 2b Checklist

#### Overall Development

- Response describes the *overall* development process, *not only* two key points.
- Response indicates whether you completed the project independently or with a partner. (note: this indication can be incorporated throughout your response *and* in comments within your code as well).

#### First Difficulty / Opportunity

- Response describes one difficulty / opportunity encountered early in the development process
- Response describes source of difficulty / opportunity as either feedback, testing, or reflection
- Response indicates how it was incorporated / solved, including whether you wrote the code independently.

#### Second Difficulty / Opportunity

- Response describes one difficulty / opportunity encountered later in the development process
- Response describes source of difficulty / opportunity as either feedback, testing, or reflection
- Response indicates how it was incorporated / solved, including whether you wrote the code independently.

- If first Difficulty / Opportunity WAS NOT solved independently, then this one must be

## Written Responses - Response 2c Checklist

### Overall

- You wrote all algorithm code yourself
- Response includes copy-pasted versions of code for main and sub-algorithms with ovals around them
- Response identifies the **selected** algorithm (parent) and at least two **included** algorithms (children).

### Included algorithm 1

- Clearly identifies the code for the algorithm (where in the code, function name, line numbers, etc)
- Explains what the algorithm does independently
- Describes how the code of the algorithm works
- Uses mathematical or logical concepts

### Included algorithm 2

- Clearly identifies the code for the algorithm (where in the code, function name, line numbers, etc).
- Explains what the algorithm does independently
- Describes how the code of the algorithm works
- Uses mathematical or logical concepts

### Selected Algorithm

- Clearly identifies the code for the **selected** algorithm (where in the code, function name, line numbers, etc).
- Describes how **selected** algorithm combines **included** algorithms.
- Explains how **selected** algorithm helps to achieve the overall purpose of the program

## Written Responses - Response 2d Checklist

### Overall

- You wrote all abstraction code yourself (it's not an onEvent block, but a function you defined and named)
- Response includes copy-pasted versions of code for abstraction with a rectangle around it
- Response identifies the abstraction by name
- You explicitly describe HOW the abstraction manages complexity (e.g. by explaining how your code would be more complex to write or reason about without the abstraction)

### Entire Program Code

- Saved as a PDF format file
- Includes all of your code that made up your program/project
  - If not working in code.org, includes all files/scripts that make up the code (for example, Unity Game Engine must include all code from all scripts)
- Algorithm used for Response 2C properly marked with an oval
  - Matches that of the screenshot shown for Row 4
- Abstraction used for Response 2D properly marked with a rectangle
  - Matches that of the screenshot shown for Row 7
- Comments included in the code marking:
  - Parts of the program that were completed independently
  - Parts of the program that were completed by your partner (no names!)

Images not created by you are properly cited