# Final Project | Coursera

### Background and Context Statement

0 pts

- The location and natural disaster are not described

1 pt

- Either the location **OR** the natural disaster is described, but not both

2 pts

- Both the location **AND** the natural disaster are described

# Problem Identification

Was the identified problem adequately explained in their project justification document? Did the learner identify a problem in their graphic organizer?

Choose the rubric level that best describes problem identification in their project:

0 pts

- The project justification document does not provide an adequate explanation of how they arrived at their problem identification.
- A problem is **NOT** identified in the graphic organizer.

1 pt

- The project justification document does **NOT** provide an adequate explanation of how the learner arrived at their identified problem.
- A problem is identified in the graphic organizer.

2 pts

- The project justification document adequately explains how the learner arrived at their problem identification.
- A problem is identified in the graphic organizer.

# Decomposition

Were decomposed problems adequately explained in their project justification document? Did the learner identify any decomposed sub-problems in their graphic organizer?

Choose the rubric level that best describes decomposition in their project:

0 pts

- The project justification document does **NOT** provide an adequate explanation for how decomposition helped solve the identified problem.
- There are **NO** decomposed problems in the graphic organizer.

1 pt

- The project justification document does **NOT** provide an adequate explanation for how decomposition helped solve the identified problem.
- Decomposed problems are identified in the graphic organizer.

2 pts

- The project justification document adequately explains how decomposition helped solve the identified problem.
- Decomposed problems are identified in the graphic organizer.

# Pattern Recognition

Was pattern recognition adequately explained in their project justification document? Did the learner identify any patterns in their graphic organizer?

Choose the rubric level that best describes pattern recognition in their project:

0 pts

- The project justification document does **NOT** provide an adequate explanation for how pattern recognition helped solve the identified problem.
- **NO** pattern recognition is identified in the graphic organizer.

1 pt

- The project justification document does **NOT** provide an adequate explanation for how pattern recognition helped solve the identified problem.
- Pattern recognition is identified in the graphic organizer.

2 pts

- The project justification document adequately explains how pattern recognition helped solve the identified problem.
- Pattern recognition is identified in the graphic organizer.

# Abstraction

Was abstraction adequately explained in their project justification document? Did the learner identify any abstraction in their graphic organizer?

Choose the rubric level that best describes abstraction in their project:

0 pts

- The project justification document does **NOT** provide an adequate explanation of how abstraction helped solve the identified problem.
- **NO** abstraction is identified in the graphic organizer.

1 pt

- The project justification document does **NOT** provide an adequate explanation of how abstraction helped solve the identified problem.
- Abstraction is identified in the graphic organizer.

2 pts

- The project justification document adequately explains how abstraction helped solve the identified problem.
- Abstraction is identified in the graphic organizer.

# Algorithm Depiction

Did the learner identify an algorithm and incorporate the elements from the computational thinking process in their graphic organizer?

Choose the rubric level that best describes algorithm depiction in their project:

2 pts

- Algorithm is depicted, but it does **NOT** incorporate any of the elements from the computational thinking process (problem identification, decomposition, pattern recognition, abstraction).
- The algorithm features significant logical fallacies, and it relies on subjective questions that are likely unanswerable by a computer.

4 pts

- Algorithm is depicted, and it incorporates 1 of the 4 elements from the computational thinking process (problem identification, decomposition, pattern recognition, abstraction).
- The algorithm features some logical fallacies, and there are subjective questions that are likely not suited for a computer-based solution.

6 pts

- Algorithm is depicted, and it incorporates 2 of the 4 elements from the computational thinking process (problem identification, decomposition, pattern recognition, abstraction).
- The algorithm is mostly logical, and it is well suited for a computer-based solution.

8 pts

- Algorithm is depicted, and it incorporates 3 of the 4 elements from the computational thinking process (problem identification, abstraction, decomposition, pattern recognition).
- The algorithm is logical, and it is well-suited for a computer based solution.

10 pts

- Algorithm is depicted, and it incorporates all of the elements from the computational thinking process (problem identification, abstraction, decomposition, pattern recognition).
- The algorithm is logical, and it is well-suited for a computer based solution.