

Part 1: Design

10 marks

1. **Identify listed issues:** List 3 issues in the given scenario possible design ideas. Identify three ideas, providing as much detail as possible.
2. **Evaluate and design:** Select one idea and identify a design idea and identify a design idea based on the scenario of each scenario's idea.
3. **Design brief:** Write a design brief with detailed specifications for the final design idea, covering issues such as size, materials, safety, and functionality.
4. **Flow chart:** Write a flow chart to present with the design and construction phase, and each issue is a flowchart to outline the steps to be taken.

Part 2: Planning and Making

10 marks

1. **Working drawings:** List 3 issues in the given scenario possible design ideas for an aspect of the plan, using first angle orthographic projection. Draw that you can a suitable scale, correct line types, and dimensions.
2. **Budget:** Prepare a budget for the "real life" situation, including necessary materials and labour costs. Draw that you budget is suitable and based on real market costs.
3. **Model:** Build a model of your final design idea. The model should be constructed using real materials and show intelligent use of materials, design practice safety, when working with tools and materials.

Part 3: Evaluation

10 marks

1. **Evaluation statement:** Write a statement as a team to evaluate the situation. The statement will be used to assess your team's solution and another team's solution. The will use this during the presentation phase.

Part 4: Communication

10 marks

1. **Team Presentation:** Teams will present their model to the "client" (your teacher and classmates). Each team member must be responsible for presenting a specific aspect of the project. Your presentation should include the design, plan, the budget, the model, and suitable responses.

Contractors

Design  
Phase  
1/2

10 marks



Name:

Class:

# Grade 9 CAPS Technology

## Mini-PAT

### Community Issues – The Contractors

In this Mini-PAT (Practical Assessment Task), you will act as part of a contracting company competing for a contract to design and build a structure that addresses a problem facing a community. The project will focus on identifying a problem, investigating possible solutions, designing a structure, costing the project, and evaluating the final solution. You will be working in a group.

#### Instructions

##### Part 1: The Tender Process (including Ethical Practices)

10 marks

1. **Scenario Introduction:** A community lives on a major river's far bank. The river is wide and deep, preventing the people from reaching the city on the opposite side. This means that the people cannot take advantage of the work opportunities, the excellent medical and schools facilities, and the wide range of shops available in the city.

2. **Investigation:** Teams discuss possible structures to solve

ink saving Eco

# Gr 9 Tech Pat

**JA Banks**



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
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