

Part 1: Design

10 marks

1. **Identify listed issues:** List '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 example of one another'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 learner creates a flowchart to outline the steps to be taken.

Part 2: Planning and Making

10 marks

1. **Working drawings:** Each learner is responsible for creating detailed plan drawings for one aspect of the plan, using first angle orthographic projection. Drawings that you can't create include: section line types, and dimensions.
2. **Budget:** Prepare a budget for the 'real life' situation, including necessary materials and labour costs. Drawings that you budget is realistic and based on real market costs.
3. **Model:** Create a model of your final design idea. The model should be constructed using real materials and show intelligent use of materials. Drawings that you create using real materials and show intelligent use of materials.

Part 3: Evaluation

10 marks

1. **Evaluation instrument:** Collaborate as a team to create an evaluation instrument. The instrument 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 and to the 'client brief' (your teacher and classmates). Each team member must be responsible for presenting a specific aspect of the project. Your presentation should include drawings, plans, the budget, the model, and written responses.

Contractors

Design
Phase
1/2

10 marks



Printable

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



Mini Pat Grade 9 Term 4 Memorandum

Anthony S. Fauci

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