

Classroom to Careers

Engineering & Manufacturing

Name: _____

Part A: Trade Comparison

Complete the table below using information from the video regarding the two main apprenticeship pathways.

Feature	Fabrication Engineering (Boilermaking/Welding)	Mechanical Engineering (Fitting and Turning)
Qualification		
Primary Task		
Equipment/Materials		
Common Workplace		

Part B: Suitability & Personal Traits

The video lists several traits of students who "do well" in these trades. Tick the comments that align with you.

- ☐ Enjoy hands-on practical work
- ☐ Can visualise how things fit together (Spatial Awareness)
- ☐ Safety conscious
- ☐ Patience and attention to detail

- [] Reasonably good at measurement and basic maths
- [] Is curious about how things work

Part C: Trade Aptitude Challenge

Engineering trades require strong applied mathematics. Solve these problems based on industry-standard entry assessments found in your sources:

1. **Geometry:** Calculate the area of a triangular metal bracket with a base length of 10 cm and a height of 8 cm.
 - Answer: _____
2. **Percentages:** Michelle earns \$500 a week as an apprentice. She receives a 5% pay rise. What is her new weekly wage?
 - Answer: _____
3. **Measurement:** Convert a 5-amp current reading into milliamps (mA).
 - Answer: _____

Part D: Taking Head Start Action

1. **The Coordinator:** Head Start is available in all Victorian Government schools. Look at the provided Head Start map. Who is the Coordinator for your school?

My School: _____

My Head Start Coordinator: _____