

Rangiora High School



Year 9 Technology Pre-test



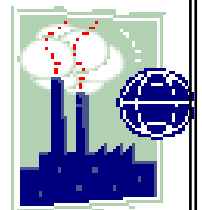
General Instructions-2011

Time frame allocated- 20 minutes.

Students may continue to take as **much time as they need** to complete the test.

Please read these guidelines to the students before the test is given.

- 1 **Assessment conditions must be complied with.**
 - **No communication of any kind between students.**
 - **Silence must be maintained until the last test paper is collected.**
- 2 Students should write their first name, surname and school attended in 2010 in the space provided.
- 3 All students **must** complete the assessment, by shading in the lettered box of their choice, A, B, C, or D.
- 4 If an answer is to be changed, student should clearly cross through the incorrect one and make another selection.
- 5 Students should indicate an answer for **all** questions to the best of their ability. There are 50 questions.

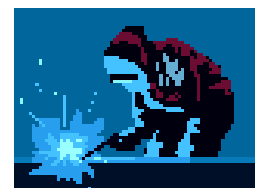


- 6 This is an important assessment.

The information that is generated for each student from this pre-test, informs the teachers' practice and gives a clear foundation for focussed learning activities. It provides information for the teacher to develop strategies to enable individual learner's needs to be fully met.

Teacher notes:

- 7 Identify absent students on the roll provided.
- 8 Please collect and collate the assessment in **alphabetical order** when the students have finished.
- 9 Return the **assessment and roll** to Jn's pigeonhole.

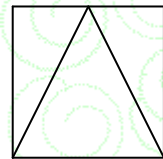
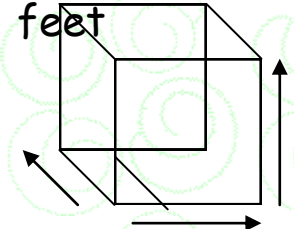


Year 9 Pre-test Numeracy

Please answer the following 20 questions- A, B, C OR D on the answer sheet provided

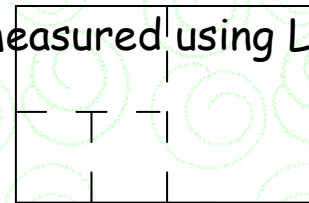
*** Units of measurement

1. In Technology, the expected, or preferred, unit of measurement is?
A) cm's B) mm's C) inches D) feet
2. How many mm's in 1 metre?
A) 10 B) 100 C) 1000 D) 10,000
3. How many cm's in 1 metre?
A) 10 B) 100 C) 1000 D) 10,000
4. How many mm's in a standard 30cm ruler?
A) 3 B) 30 C) 300 D) 3000



*** Volume & Area

5. The volume of a 3-Dimensional (solid) object is measured using $L \times W \times H$
L represents what?
A) Length B) Line C) Linear D) Long
6. W represents what?
A) Wide B) Width C) Window D) Wrong
7. H represents what?
A) Hall B) Home C) Height D) Heavy
8. How is the area of a 2-Dimensional, (flat) object measured?
A) $L \times D$ B) $D \times H$ C) $W \times H$ D) $L \times W$
9. The area of a triangle is calculated using?
A) $B \times H$ B) $1/2B \times H$ C) $B \times 1/2H$ D) $H \times B \times$
angles



*** Materials & scales

10. A 2400mm x 1200mm sheet of MDF/ puff pastry/ acrylic costs \$44.
How much would a piece 600mm x 600mm cost?
A) \$22 B) \$11 C) \$5.50 D) \$2.25

11. When marking out and cutting any type of material, what amount, in %, would you expect to waste?
- A) 1% B) 20% C) 30% D) 5%
12. If a model were made of a Technological Product (car, cell phone, bicycle, t-shirt, wedding cake) that was full-size, what would it's scale be?
- A) 1:20 B) 1:10 C) 1:1 D) 1:2
13. If an architect made a model of a building that was 1/50th of it's actual size, what would it's scale be?
- A) 1:10 B) 1:50 C) 1:1 D) 1:20

In weights & measures, what do the following abbreviations stand for?

14. **T** =
- A) Tablespoon B) Teaspoon C) Tank D) Temperature
15. **t**=
- A) tablespoon B) teaspoon C) tank D) temperature
16. **c**=
- A) container B) cooking C) cup D) combine
17. **ml**=
- A) most liquid B) milli-litre C) max. limit D) much light
18. **1 teaspoon = ? ml?**
- A) 1 ml B) 2 ml C) 4 ml D) 5 ml
19. **1 Litre = ? ml?**
- A) 500 ml B) 1000 ml C) 100 ml D) 10 ml
20. **1 cup = ? ml?**
- A) 250 ml B) 100 ml C) 500 ml D) 1000 ml

NOW MOVE ON TO THE LITERACY TEST

Year 9 Pre-test Literacy

Please answer the questions 21 to 50 below - A, B, or C on the answer sheet provided

What is the meaning of?	A	B	C
21. The Need =	requirement	duty	obligation
22. The Opportunity =	chance	advantageous circumstance	priority
23. Stakeholder =	purpose	distributor	interested party
24. The Brief =	short statement	short time	abrupt
25. Specifications =	particular things	purposeful list	description of criteria
26. Function =	intended purpose	mechanism	employment
27. Research =	science	investigation	find
28. Aesthetics =	pleasing to the eye	mechanical	operational
29. Outcome =	result	end	system or product
30. Prototype =	practice	final idea	final outcome
31. Manufacture =	test	produce	evaluate
32. Society =	club	interaction of people	sport group
33. Innovation =	wide thinking	new thinking	ideas
34. Characteristics =	component	attribute	style

What is the meaning of?	A	B	C
36. Attribute =	general features	mark	note
37. Conceptual statement =	sentence	phrase	brief & specifications
38. System =	logical process	programme	develop
39. Modelling =	visually test	practice	profile
40. Justify =	validate	pardon	correct
41. Constraints=	restriction	size	list

FOR THE NEXT 3 BOXES SELECT A, B, OR C, FROM THE WORDS BELOW TO COMPLETE THE SENTENCES

A **brief** is a...(42)..and clearly describes...(43)...

A '**conceptual statement**' is a ...(44)...description that communicates the focus and purpose of what is to be done and why it should be done.

A written B description of a need C an opportunity

The brief also includes 'specifications'.

These identify the SPECIFIC requirements of the outcome.. These **specifications** could be such things as ...(45)... and ...(46)... '**Fit for purpose**' is (47)... within the intended location, where the 'job to be done' is clearly defined by the brief.

A doing the job B what it will do C what it looks like

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A doing the job B what it will do C what it looks like