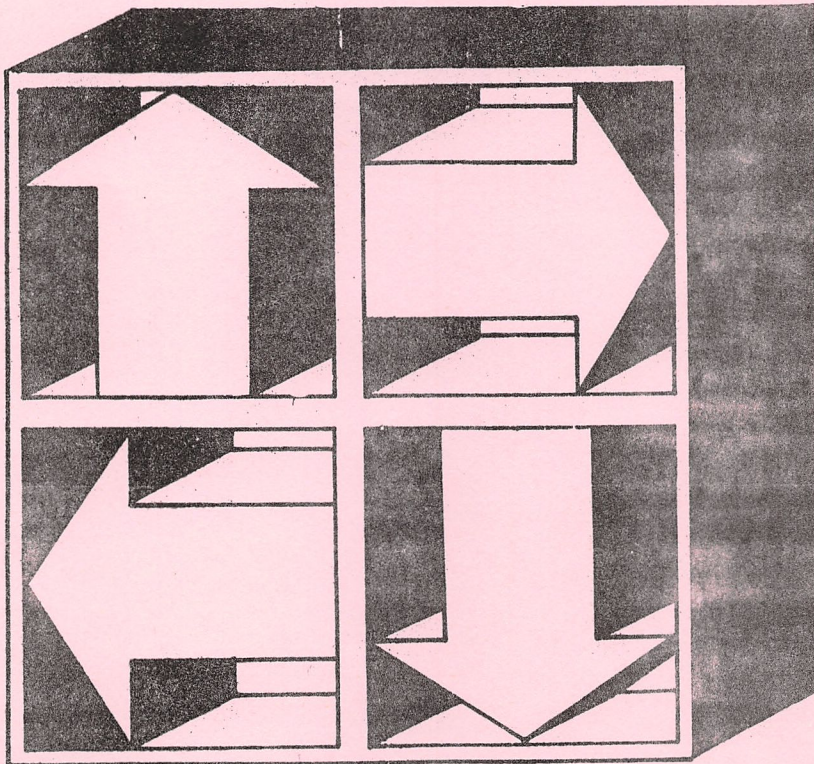


VC 22290
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SUBJECT OUTLINE HANDBOOK



RINGWOOD TECHNICAL SCHOOL

RINGWOOD TECHNICAL SCHOOL

HUMANITIES DEPARTMENT

1984.

HUMANITIES YEAR 9

TIME ALLOTMENT: Seven units per week.

AIM: To help students to fulfill their potential in the development of language and social skills.

CONTENT:

- (1) Reading - Novel Reviews: Class Sets
Extended Reading.
- Silent Reading.
- (2) Writing - Essays: Various forms.
- Short Stories.
- Poetry.
- Reports.
- (3) Comprehension - Clear Thinking.
- Summary.
- Analysis/Interpretation.
- (4) Communication - Class and Small Group Discussions.
- Oral Reports.
- Demonstrations, Class Talks.
- Reading Aloud.
- Listening Accurately.
- (5) Theme - Australia and the World around me.

ASSESSMENT: Cumulative assessment of written exercises, assignments, essays. Participation in class activities and work attitude is taken into consideration.

HOMEWORK: Completion of classwork, assignments and any other work that individual teachers set, e.g. reading, spelling lists, research, worksheets.

SPECIAL REQUIREMENTS: Nil.

ACCREDITATION: This is a School Accredited Subject.

PRE-REQUISITES: Nil.

RINGWOOD TECHNICAL SCHOOL

MATHEMATICS DEPARTMENT

MATHEMATICS YEAR 9

1984

TIME ALLOTMENT: Five units per week.

AIM: The aim of this course is to:-
(a) extend and consolidate the previous years work.
(b) allow the students to realise their mathematical potential, and to make realistic year 10 course choices.

CONTENT: The program below sets out the topics to be studied each term. Students who show they are competent at a level will move onto the next level during the following term. Others may be required to repeat whole or part of a level.

Week	TERM 1 Level 7	TERM 2 Level 8	TERM 3 Level 9
1	Approximations	Equations - Linear and Quadratic	Indices, Powers and Roots
2	Directed Number	Substitution	Transposition
3	Indices	Transposition	Equations and Linear Graphs
4	Metrics	Theorem of Pythagoras	Volume
5	Expansion and Factorization	Percentages	Factorization
6	Powers and Roots	Expansion	Simultaneous Equations (substitution)(either method)
7	Geometry	Factorization	Statistics
8	Equations	Area	Probability
9	Substitution	Simultaneous Equations (elimination)	Pythagoras
10	Perimeter	Parabolas	Trigonometry
11	Transposition	Similar Triangles	Revision and Test
12	Graphs	Trigonometry	
13	Revision and Test		

ASSESSMENT: Each student will be assessed by six topic tests throughout the term and a final overall term test.

HOMEWORK: A set homework sheet each week is to be done concurrently with each level.

SPECIAL REQUIREMENTS: Nil.

ACCREDITATION: This is a school accredited subject.

PRE-REQUISITES: Nil.

RINGWOOD TECHNICAL SCHOOL

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SCIENCE DEPARTMENT

GENERAL SCIENCE YEAR 9

- TIME ALLOTMENT: Three units per week
- AIM: To study in a more formal way than the previous two years, the three main topic areas of Science, namely Physics, Chemistry and Biology. One term is allocated for each topic.
- Usually students have a different teacher in a different room each term so that they are taught by a teacher with expertise in that topic and in a room with the most appropriate resources. Practical work is an important part of the course, usually occupying half of the programme.
- CONTENT:
- Physics
Electrostatics, electromagnetism, radiation, electricity, forces.
- Meteorology
Weather instruments, causes of weather, precipitation, warm and cold fronts.
- Chemistry
Sub-atomic structure, chemical bonding, acids and metals, oxidation of organic compounds, heating nitrates, gas identification.
- Biology
Cellular structure including extensive microscope work, human body - digestive system, cardio-respiratory system, the brain, skeletal system, muscular system, circulatory system.
- ASSESSMENT: Each student will be assessed by a percentage mark given for at least three tests and/or assignments per term.
- HOMEWORK: Homework may be set for up to one hour per week.
- SPECIAL REQUIREMENTS: Nil.
- ACCREDITATION: This is a School Accredited Subject.
- PRE-REQUISITES: Nil.

RINGWOOD TECHNICAL SCHOOL

PHYSICAL EDUCATION DEPARTMENT

1984

PHYSICAL EDUCATION YEAR 9

TIME ALLOTMENT: Two units per week.

AIM: To appreciate the importance of Physical Education as part of the total education process.

To develop physical, social and mental skills in practical and theoretical aspects of Physical Education, Health and Recreation.

CONTENT:

Practical - Athletics	3 weeks
Gymnastics	4 weeks
Badminton & Table Tennis	3 weeks
Tennis	3 weeks
Basketball	2 weeks
Volleyball	2 weeks
Softball	2 weeks
Squash	3 weeks
Conditioning	3 weeks
Roller Skating	2 weeks
Swimming	3 weeks
Theoretical - Nutrition	3 weeks
First Aid	3 weeks
Rules, Regulations and Tactics.	2 weeks

ASSESSMENT: Attendance with uniform.
Practical skill development.
Punctual submission of the note book and assignment.
Behaviour/Attitude.
Active participation.

HOMEWORK: Small assignments related to practical and theoretical areas.

SPECIAL REQUIREMENTS: Physical Education uniform. Loose leaf note book.

ACCREDITATION: This is a School Accredited Subject.

PRE-REQUISITES: Nil.

TIME ALLOTMENT: One unit per week.

AIM: To provide "hands on" experience with computers, with application to various faculties in the school.

<u>CONTENT:</u>	Topic	Description
	Introduction (2 Units)	Keyboard skills, command syntax.
	Humanities (10 Units)	Language skill development programmes. Logic and word games.
	Mathematics (10 Units)	Basic (numerical) skill development, Mathematical applications (Trig, functions, graphs, polynomials, factors etc.) Maths games. Basic programming.
	Science (9 Units)	Simulations (e.g. ecology, atomic structure). Physics and Chemistry applications.
	Business Studies (9 Units)	Word processing (using "SCRIPSIT"). Simple Data-base operations. Use of computers in accounting, budgeting.
	(Total of 40 Units)	

ASSESSMENT: By assignments for each topic.

HOMEWORK: Preparation of programmes to be submitted.
Pre-reading for selected topics.

SPECIAL REQUIREMENTS: Nil.

ACCREDITATION: This is a School Accredited Subject.

PRE-REQUISITES: Nil.

ART DEPARTMENT

ART - YEAR 9

TIME ALLOTMENT: Three units per week.

AIM: To provide students with a broad range of art experiences in a variety of media. To encourage self expression through the investigation and development of individual ideas and projects.

To provide a basis for students to make an informed choice of Art subjects for Years 10 and 11.

CONTENT: Drawing/Painting/Printmaking.

The three major 2 Dimensional processes will allow students to investigate more complex aspects of design, and give students an opportunity to apply some of these elements in projects such as illustration, and poster design. Assignments will include principles of perspective and colour theory.

Ceramics and Sculpture

Ceramics will introduce the wheel as well as more complex hand building techniques.

Students will investigate glazing and decoration techniques.

Sculpture and construction projects will encourage students to further investigate and refine techniques to allow more complex projects to be undertaken.

ASSESSMENT: Students will be encouraged to develop ideas and to demonstrate their knowledge of basic design principles and their ability to handle art materials.

Each project will be marked on completion and a letter assessment and descriptive report will be issued at the half year and the end of year.

HOMEWORK: Students may take projects home to continue if it is feasible to do so, and some materials may be taken also.

ACCREDITATION: This is a School Accredited Subject.

SPECIAL REQUIREMENTS: Aprons or protective clothing should be worn by students.

TIME ALLOTMENT: Three units per week.

AIM: To give the student the knowledge and skills to become a more aware and responsible consumer.

CONTENT: Major areas to be covered will include:

Term 1

History of the Business System.
How goods are produced.
Earning an Income.
Planning a future/careers.

Term 2

Applying for a Job.
Budgeting an Income.
Wise Buying - Advertising.
- Packaging and Labels.
- Cash and Credit Buying.

Term 3

Consumer Protection - what to do when things go wrong.
Banks and how they work.
Insurance.

ASSESSMENT: Two tests will be given per term - 60%.
Topic Vocabulary Tests - 20%.
Notebooks 10%.
Satisfactory completion of set homework 10%.

SPECIAL REQUIREMENTS: Nil.

ACCREDITATION: This is a School Accredited Subject.

PRE-REQUISITES: Nil.

ELECTRONICS/ELECTRICAL DEPARTMENT

ELECTRICAL/ELECTRONICS YEAR 9

TIME ALLOTMENT: Three per week.

AIM: To develop the students:-

- (i) Initiative, curiosity, independence and self reliance.
- (ii) Practical skills and safe working procedures.
- (iii) Ability to investigate and solve problems.

CONTENT: Selection of student skills that could be covered during the year.

Use of electric soldering iron.

Measure resistance with multimeter.

Identify the value of resistors.

Connect electronic components.

Use hand tools correctly.

Analyse simple circuits.

Assemble component parts into a completed project.

Wind coil for electromagnet.

Prepare materials correctly for soldering.

Bend various types of materials re. P.V.C. tinfoil aluminium.

Describe the operation of a solenoid.

Cut various types of materials re insulated copper wire, tinfoil, aluminium, p.v.c.

Prepare and join a flexible cord to a cord extension socket and three pin plug.

ASSESSMENT: Bookwork, practical projects, attitude.

HOMEWORK: Nil.

SPECIAL REQUIREMENTS: Hairnet, apron plus booklist requirements.

ACCREDITATION: This is a School Accredited Subject.

ENGINEERING WORKSHOP EXPERIENCE YEAR 9

TIME ALLOTMENT: Three units per week.

- AIM:
- (1) To give students a wide range of experience in the use of available equipment and in the working of engineering materials through the means of practical projects.
 - (2) To continue the introduction of technical terms and equipment names and to reinforce areas of numeracy.
 - (3) To promote correct attitudes to safe working habits.

CONTENT: During the course of the practical projects students will be involved in the use of -

marking out tools and equipment.
measuring and testing tools.
hand cutting tools.
heating and welding equipment.
various metals and acrylics.
An introduction to the engine lathe involving -

- (a) Parallel turning.
- (b) Facing.
- (c) Angular turning.
- (d) Drilling in the lathe.
- (e) Use of taps and dies in the lathe.

A simple introduction to the shaping machine and casting process will be given.

PROJECTS: Spiked garden spray - compulsory then, or all of a selection available.

ASSESSMENT: Will be based on projects completed throughout the year (A letter grading will be given).

HOMEWORK: Nil.

SPECIAL REQUIREMENTS: Safety beret, school type shoes or solid type desert boots. Apron or overalls.

ACCREDITATION: This is a School Accredited Subject.

PRE-REQUISITES: Nil.

GRAPHIC COMMUNICATIONS DEPARTMENTGRAPHICS COMMUNICATION YEAR 9

TIME ALLOTMENT: - Three units per week.

AIM: To obtain proficiency in the use of drawing instruments and graphic media. To acquire the knowledge, and skills, necessary to successfully complete the syllabus topics.

<u>CONTENT:</u>	<u>TOPIC</u>	<u>KNOWLEDGE AND SKILLS</u>	<u>DURATION</u>
Term 1 & 2	<u>Orthographic</u> (A multi-view 2 dimensional drawing used in construction, engineering and design)	Spatial Relations (Visualizing objects in space). Conventions Instruments Home Plans Interpretation Developments Design Scale Sectioning	13 weeks
Term 2	<u>Orthographic</u> continued	Supporting practical work	8 weeks
	<u>Pictorial</u>	Awareness of pictorial drawings	
	<u>Isometric</u> <u>Perspective</u> (3 dimensional drawings which approximate realism)	Knowledge of two types Exploded Isometric Sketching Rendering Supporting Humanities and Woodwork	
	<u>Monograms</u>	Design Sketching Shape and Colour	5 weeks
Term 3	<u>Diagrams</u> <u>Explanatory</u> <u>Statistical</u>	Awareness of types Use for Explanatory Diagrams Research Logical Thinking Sketching Supporting Science	8 weeks
	<u>Theme Study</u>	Initiative Research Organization Presentation	3 weeks

ASSESSMENT: Assessment will be by the evaluation of Tests, Theme Study and Classwork.

HOMEWORK: Students will be expected to do one hour per week of drawing at home.

SPECIAL REQUIREMENTS: Nil.

ACCREDITATION: This is a School Accredited Subject.

TIME ALLOTMENT:

Three units per week.

AIM:

To further develop the practical and theoretical aspects of food preparation, handling and service.
To develop an appreciation of food, cultures and customs.

CONTENT:

Practical areas of work.

1. International Cookery - Lasagne, Pizza.
2. Flour Products and Baked Goods, Yeast Goods, Cakes.
3. Menu preparation and construction.
4. Sugar and sugar products. (Confectionery)
5. Traditional dishes related to festivals.
6. Cake Decorating - Novelty Cakes, Christmas Cakes.
7. Expansion of manual skills.
8. Barbeque cooking.

Theoretical areas of work

All practical classes are reinforced with applicable theoretical work, and additional study areas.

1. Reinforcement and continuance of kitchen, hygiene, safety and equipment usage.
2. Meal planning and organisation.
3. History of foods.
4. Confectionery.
5. Customs and festivals.
6. Budgeting and shopping.
7. The Consumer.
8. Housing.
9. Leisure.
10. The family.
11. Any further areas of study related to this subject and considered by the department as applicable.

ASSESSMENT:

Cumulative throughout the year.

1. Practical work, assessed progressively.
2. Theoretical Test.
3. Assignments.
4. Question Sheets.
5. Work Books.

HOMEWORK:

Assignments, revision units and further research of topic areas, as directed by classroom teacher.

SPECIAL REQUIREMENTS:

1. Two tea towels.
2. One container.
3. Writing equipment.
4. Folder.

ACCREDITATION:

This is a School Accredited Subject.

PRE-REQUISITES:

Nil

AUTOMOTIVE PRACTICES DEPARTMENT

MECHANICAL APPRECIATION - YEAR 9

- TIME ALLOTMENT: Three units per week.
- AIM: The main elements in the philosophy underlying Mechanical Appreciation are:-
- That students understand how and why many simple machines operate.
 - That students are aware of the impact machines have on our life style.
 - That students will come to respect the safety and dangers associated with the use of machines.
- CONTENT: Mechanical concepts and principles related to the operation, use and care of machines.
- Consequences of machines in our community.
 - Design and production of models that use mechanical principles.
 - Aesthetic presentation of machines.
 - Explore Physics through its application to everyday machines.
 - Skills required for the safe usage and repair of simple machines.
- ASSESSMENT: Cumulative on set work throughout the year.
- HOMEWORK: To complete set work as required.
- SPECIAL REQUIREMENTS: Apron or overalls, hairnet, school shoes or solid desert boots.
- ACCREDITATION: This is a School Accredited Subject.
- PRE-REQUISITES: Nil.

RINGWOOD TECHNICAL SCHOOL

PLUMBING AND SHEETMETAL DEPARTMENT

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SHEETMETAL YEAR 9

TIME ALLOTMENT: Two units per week.

AIM: To involve students in activities which will enable them to solve simple problems, and to develop dexterity in working with metals and plastics.

CONTENT: Students will be involved in the use of:-

- | | |
|-------------------|---|
| Marking out tools | - Scriber, rule, square, dividers. |
| Hand Tools | - Snips, hammers, files, pliers, piercing saw, riveting tools, L.P.G. torches, mallets, punches, soldering iron. |
| Machines | - Bench folder, cramp folder, rolls, press, resistance welder, electric drill - pedestal
- portable. |
| Processes | - Cutting, bending, folding, pressing, rolling, riveting, soldering, annealing, hollowing, planishing, hammer marking, saw piercing, joining acrylic sheet, resistance welding. |
| Materials used | - tinsplate, aluminium, copper, acrylic, wire, solder, gal. steel, marvi plate. |

The syllabus includes any or all of the following projects:-

- | | |
|---------------------|-----------------------|
| Robot Man | Plastic Desk Set |
| Scone Cutters (2) | Owl Mobile |
| Soldering Exercise | Fish Mobile |
| Racing Car | Copper Tray |
| Wire Hanging Basket | Acrylic Animal Shapes |
| Shoe Horn | Trojan Man |
| Letter Rack | Snoopy Plane |
| Aluminium Bowl | Screw Driver Rack |

ASSESSMENT: Based on all of the projects completed throughout the year, with a numerical or literal grading.

HOMEWORK: Nil.

SPECIAL REQUIREMENTS: Apron, hairnet, school shoes.

ACCREDITATION: This is a School Accredited Subject.

RINGWOOD TECHNICAL SCHOOL

HOME ECONOMICS/CLOTHING DEPARTMENT

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TEXTILES YEAR 9

TIME ALLOTMENT:

Three Units per week

AIM:

To teach elective group/s of year 9 co-educational students the ability of simple garment construction, the awareness of style and trends. To teach these students to use commercial patterns (need, reading and understanding). To make up materials and fibres of personal choice.

CONTENT:

1. Nightshirt.- Knit Fabric.
2. Skirt or unlined Jacket.
3. Track Suit - Stretch Fabric.
4. Additional garments if time permits.

Skills

In conjunction with articles.

Processes

In addition to skills

Binding.

Shirring.

Concave and convex curves.

ASSESSMENT:

Cumulative throughout three areas.

1. Garments on completion.
2. Theory.
3. Written tests in class time.

HOMEWORK:

Individual as needed and instructed by classroom teacher.

SPECIAL REQUIREMENTS:

Work Bag (to be retained from previous years).

Equipment as listed on booklist.

Additional fabrics, threads, trimmings as necessitated throughout the year.

ACCREDITATION:

This is a school accredited subject.

PRE-REQUISITES:

Nil.

RINGWOOD TECHNICAL SCHOOL

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BUSINESS STUDIES DEPARTMENT

TYPEWRITING - YEAR 9

TIME ALLOTMENT: Three units per week.

AIM: The aim of this subject is to enable students to type acceptable copy of personal material such as letters, essays, homework, assignments etc., from handwritten or type written material.

CONTENT:

Term 1

Mastery of the keyboard with stress on correct technique. Speed and accuracy development on two minute timings. Language development and simple display techniques.

Term 2

Continuation of language development. Speed and accuracy development on three minute timings. Formal production typing with more advanced display techniques.

Term 3

Continuation of language development. Speed and accuracy development on five minute timings. Introduction of personal and business correspondence.

ASSESSMENT: Three term tests.

HOMEWORK: No homework is set in this subject.

SPECIAL REQUIREMENTS: Nil.

ACCREDITATION: This is a School Accredited Subject.

PRE-REQUISITES: Nil.

WOODWORK DEPARTMENT

WOODWORK - YEAR 9

TIME ALLOTMENT: Three units per week.

AIM: To provide an extension of skills learnt in Years 7 and 8 with emphasis being placed on the standard of work. Models are designed around sound cabinet making practices.

CONTENT: Talks will be given on functional design of simple furniture. Timbers used and how finished. Simple upholstery.

Models are designed keeping in mind the progressive skills the students have developed over the past years in the woodwork course.

Models

1. Halving Joint.
2. Shoe Box.
3. Single Pin dovetail joint.
4. Jewell Box.
5. Dowell Joint.
6. Upholstered Stool.
7. Coffee table.
8. Optional - Electric Clock (cost to be paid by student)
- Woodturning.

ASSESSMENT: Students are assessed on each individual model for their final mark.
A Percentage mark or letter grading is given.

HOMEWORK: Nil.

SPECIAL REQUIREMENTS: Safety beret.
Apron.
Pencil.
Safe Footware (no sneakers, sandals).

ACCREDITATION: This is a School Accredited Subject.

PRE-REQUISITES: Nil.

A SIMPLIFIED CHART SHOWING THE OPPORTUNITIES FOR RINGWOOD TECHNICAL SCHOOL STUDENTS

