

Year 1		Western Adelaide Region - Maths Assessment Tasks Map (Draft - November 2013)				Pedagogical Strands	
Item	The Australian Curriculum: Mathematics aims to ensure that students ..... are confident, creative users and communicators of mathematics, able to investigate, represent and interpret mathematical problems and work, use and solve others, develop an increasing appreciation and understanding of mathematical concepts and ways with processes, and are able to pose and solve problems and work in further and deeper, abstract and concrete, and logical and possibly creative connections between the area of mathematics and other disciplines and appreciate mathematics as an accessible and enjoyable discipline/subject.						<ul style="list-style-type: none"><li>Understanding</li><li>Fluency</li><li>Problem Solving</li><li>Reasoning</li></ul>
Content Strands	Number & Algebra						
Sub Strands	Number & Place Value			Fractions and Decimals	Money and Financial Mathematics	Patterns & Algebra	
Big Idea / Concept Key Understanding	Counting the Count		Place Value	Addition & Multiplicative Thinking	Partitioning		
	<p>Numbers are said in a particular order and there are patterns in the way we say them</p> <p>The teacher/parent would tell us how many in five min</p> <p>A collection of nine many number what it looks like (ie 1 apple, 4 pencils, 10 marbles)</p> <p>We can recognise small collections without counting (jumping)</p> <p>Collections can be measured, compared and classified (ie as many as 10, equal to 10, or fewer than 10 number, different)</p>	<p>In place value we write numbers (ie 10 ones is 1 ten, 10 tens is 1 hundred, ...)</p> <p>In place value there are names for thousands units (multiples of 10) (ie tens, hundreds, thousands)</p>	<p>Numbers can be named in terms of their parts (part part whole, 7 is 6 and 1, 3 and 1, 4 and 3, ...)</p> <p>Numbers have properties that help us work easily with them (eg 7 is 5 and 2, 5 and 3 is 1, 10 and 2 is 12)</p> <p>Rounding and partitioning numbers is useful for mental and written calculation</p>	<p>The number of parts named (ie part (ie 2 parts - halves, 1 part - whole)</p> <p>The fractions have equal parts</p> <p>Language is important (ie, 7 then 1 out of 2 apples, then half - how many out of how many)</p>	<p>Currency has different values and can be recognised and sorted according to appearance and value</p> <p>The size of Australian coins and notes do not determine their value</p> <p>Each country has its own currency</p> <p>Currency provides access to food and services</p>	<p>A pattern requires an element of repetition that can be described and generalised with symbols</p> <p>Patterns can be represented in many ways including using combinations of numbers, objects and symbols</p> <p>Patterns are all around us</p>	
Australian Curriculum Content Descriptor	Develop confidence with number sequences to and from 100 by one from any starting point. Skip count by 2s, 5s and 10s using their ten	Recognise, model, read, write and order numbers to at least 100. Locate these numbers on a number line	Count collections to 100 by partitioning numbers using place value	Represent and solve simple addition and subtraction problems using a range of strategies including counting on, partitioning and grouping parts	Recognise and describe one half as one of two equal parts of a whole	Recognise, describe and order Australian coins according to their value	Investigate and describe number patterns formed by skip counting and counting with objects
Learning Intention Standard	Students describe number sequences resulting from skip counting by 2s, 5s and 10s	Students read and write from 100 and locate numbers on a number line	Students partition numbers using place value	Students carry out simple additions and subtractions using counting strategies	Students identify representations of one half	Students recognise Australian coins according to their value	Students continue simple patterns making numerical and objects
Curriculum Statement Task	1.1 Number Chains		1.2 Mystery Number	1.3 On the Bus			1.4 Lucy's Books

# Western Adelaide Region Maths

**Jicheng Xie**



## **Western Adelaide Region Maths:**

Geometric Group Theory Down Under John Cossey, Charles F. Miller, Walter D. Neumann, Michael Shapiro, 2011-05-02

The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

*Abelian Groups, Module Theory, and Topology* Dikran Dikranjan, Luigi Salce, 2019-05-16 Features a stimulating selection of papers on abelian groups commutative and noncommutative rings and their modules and topological groups Investigates currently popular topics such as Butler groups and almost completely decomposable groups *Quantum Groups* Ross Street, 2007-01-18 Algebra has moved well beyond the topics discussed in standard undergraduate texts on modern algebra Those books typically dealt with algebraic structures such as groups rings and fields still very important concepts However Quantum Groups A Path to Current Algebra is written for the reader at ease with at least one such structure and keen to learn algebraic concepts and techniques A key to understanding these new developments is categorical duality A quantum group is a vector space with structure Part of the structure is standard a multiplication making it an algebra Another part is not in those standard books at all a comultiplication which is dual to multiplication in the precise sense of category theory making it a coalgebra While coalgebras bialgebras and Hopf algebras have been around for half a century the term quantum group along with revolutionary new examples was launched by Drinfel d in 1986

**Research in Mathematics Education in Australasia 2008-2011** Bob Perry, Tom Lowrie, Tracy Logan, Amy MacDonald, Jane Greenlees, 2012-09-11 This is the eighth edition of the four yearly review of mathematics education research in Australasia Commissioned by the Mathematics Education Research Group of Australasia MERGA this review critiques the most current Australasian research in mathematics education in the four years from 2008 2011 The main objective of this review is to celebrate and recognise significant findings highlight relationships between research identify themes and forecast further research directions This theme based review has produced a comprehensive analysis of Australasian research in a politically challenging time producing a manuscript with implications for a wider international audience As the 2009 Felix Klein medal winner Gilah Leder states A substantial body of research is captured in the chapters of this review It encompasses the labours of a community of active researchers with varied interests and diverse theoretical perspectives Some of the issues explored in the period covered by this volume clearly resonate with questions and concerns particularly pertinent to the changing educational environment others are more aptly described as continuing or renewed explorations of areas of long standing concern

**Language Planning and Policy** Anthony Liddicoat, Richard B. Baldauf, 2008 Language problems potentially exist at all levels of human activity including the local contexts of communities institutions This volume explores the ways in which language planning works as a local activity in a wide variety of contexts around the world deals with a wide range of

language planning issues      *Xivth International Congress On Mathematical Physics* Jean-claude Zambrini, 2006-03-07 In 2003 the XIV International Congress on Mathematical Physics ICMP was held in Lisbon with more than 500 participants Twelve plenary talks were given in various fields of Mathematical Physics E Carlen On the relation between the Master equation and the Boltzmann Equation in Kinetic Theory A Chenciner Symmetries and simple solutions of the classical n body problem M J Esteban Relativistic models in atomic and molecular physics K Fredenhagen Locally covariant quantum field theory K Gawedzki Simple models of turbulent transport I Krichever Algebraic versus Liouville integrability of the soliton systems R V Moody Long range order and diffraction in mathematical quasicrystals S Smirnov Critical percolation and conformal invariance J P Solovej The energy of charged matter V Schomerus Strings through the microscope C Villani Entropy production and convergence to equilibrium for the Boltzmann equation D Voiculescu Aspects of free probability The book collects as well carefully selected invited Session Talks in Dynamical Systems Integrable Systems and Random Matrix Theory Condensed Matter Physics Equilibrium Statistical Mechanics Quantum Field Theory Operator Algebras and Quantum Information String and M Theory Fluid Dynamics and Nonlinear PDE General Relativity Nonequilibrium Statistical Mechanics Quantum Mechanics and Spectral Theory Path Integrals and Stochastic Analysis      **Representations of Lie Algebras** Anthony Henderson, 2012-08-16 A fresh undergraduate accessible approach to Lie algebras and their representations      **Combinatorial Mathematics X** L. R. A. Casse, 2006-11-14      **Future Energy Conferences and Symposia** ,1993      **Scientific Bulletin** United States. Office of Naval Research, 1979      **Scientific Bulletin** ,1979

**Topics from Australian Conferences on Teaching Statistics** Helen MacGillivray, Brian Phillips, Michael A. Martin, 2014-09-01 The first OZCOTS conference in 1998 was inspired by papers contributed by Australians to the 5th International Conference on Teaching Statistics In 2008 as part of the program of one of the first National Senior Teaching Fellowships the 6th OZCOTS was held in conjunction with the Australian Statistical Conference with Fellowship keynotes and contributed papers optional refereeing and proceedings This venture was so successful that the 7th and 8th OZCOTS were similarly run conjoined with Australian Statistical Conferences in 2010 and 2012 Authors of papers from these OZCOTS conferences were invited to develop chapters for refereeing and inclusion in this volume There are sections on keynote topics undergraduate curriculum and learning professional development postgraduate learning and papers from OZCOTS 2012 Because OZCOTS aim to unite statisticians and statistics educators the approaches this volume takes are immediately relevant to all who have a vested interest in good teaching practices Globally statistics as a discipline statistical pedagogy and statistics in academia and industry are all critically important to the modern information society This volume addresses these roles within the wider society as well as questions that are specific to the discipline itself Other chapters share research on learning and teaching statistics in interdisciplinary work and student preparation for futures in academia government and industry      *World Directory of Mathematicians* ,1994      **Lectures on Real Analysis** Finnur

Lárusson,2012-06-07 A rigorous introduction to real analysis for undergraduates Concise yet comprehensive it includes a gentle introduction to metric spaces      **Australian national bibliography** ,1961      *Unitary Reflection Groups* Gustav I. Lehrer,Donald E. Taylor,2009-08-13 A unitary reflection is a linear transformation of a complex vector space that fixes each point in a hyperplane Intuitively it resembles the transformation an image undergoes when it is viewed through a kaleidoscope or an arrangement of mirrors This book gives a complete classification of all finite groups which are generated by unitary reflections using the method of line systems Irreducible groups are studied in detail and are identified with finite linear groups The new invariant theoretic proof of Steinberg s fixed point theorem is treated fully The same approach is used to develop the theory of eigenspaces of elements of reflection groups and their twisted analogues This includes an extension of Springer s theory of regular elements to reflection cosets An appendix outlines links to representation theory topology and mathematical physics Containing over 100 exercises ranging in difficulty from elementary to research level this book is ideal for honours and graduate students or for researchers in algebra topology and mathematical physics Book jacket      *Finite Geometries, Groups, and Computation* Alexander Hulpke,Robert Liebler,Tim Penttila,Akos Seress,2008-08-22 This volume is the proceedings of a conference on Finite Geometries Groups and Computation that took place on September 4 9 2004 at Pingree Park Colorado a campus of Colorado State University Not accidentally the conference coincided with the 60th birthday of William Kantor and the topics relate to his major research areas Participants were encouraged to explore the deeper interplay between these fields The survey papers by Kantor O Brien and Penttila should serve to introduce both students and the broader mathematical community to these important topics and some of their connections while the volume as a whole gives an overview of current developments in these fields      **Proceedings of the Fifth International Congress on Mathematical Education** CARASS,2013-03-14 International Congresses on Mathematical Education ICMEs under the auspices of the International Commission on Mathematical Instruction are held every four years Previous Congresses have been held in France Lyons England Exeter the Federal Republic of Germany Karlsruhe and the United States of America Berkeley The Fifth International Congress on Mathematical Education ICME 5 was held in Adelaide Australia from August 24 30 1984 More than 1800 participants from over 70 countries participated in the Congress while some additional 200 people attended social functions and excursions The program for ICME 5 was planned and structured by an International Program Committee and implemented by the National Program Committee in Australia For the main body of the program Chief Organisers assisted by Australian Coordinators were invited to plan and prepare the individual components of the program which addressed a wide range of topics and interest areas Each of these teams involved many individuals from around the world in the detailed planning and preparation of the working sessions for their area of program responsibility For the actual working sessions at the Congress the smallest group had some 60 members while the largest had well over 300 In addition to the working sessions there were three major plenary addresses several specially invited presentations and over 420

individual papers in the form of short communications either as posters or brief talks      *Issues in Applied Mathematics: 2013 Edition* ,2013-05-01 Issues in Applied Mathematics 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Mathematical Physics The editors have built Issues in Applied Mathematics 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Mathematical Physics in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Applied Mathematics 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com)      The Australian Mathematics Teacher ,1976

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web oct 14 2021 in brief fructose malabsorption is akin to lactose intolerance with respect to fructose sugar instead of lactose whereas dietary fructose intolerance is much more serious dietary fructose intolerance is a condition where the liver is unable to process the enzyme entirely and over time can cause serious damage to the internal organs if not

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parallel line the line flow from bus b to bus a exceeds the lines thermal rating which of the following actions would assist the operator in correcting the problem answer increase generation at bus a unlock the answer question

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mar 28 2017 marcos josh and faith show full text chicken dissection lab muscles the ways muscles in chickens are similar to ones in a human they are similar by the way they are shaped if you look at a side by side image of a chicken wing bent and a human bent they would both look similar in a way also special muscles cause

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a whole chicken was obtained of their respiratory system provide them with a continuous supply of 3 dissecting tray and dissection oxygen in line with their needs for equipments were prepared a streamlined lightweight body f 4 with gloves on the chicken was 8

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whole chicken wings suitable for dissection can be purchased fresh from most supermarkets and butchers or poultry suppliers that have passed relevant health inspections the chicken wings can be obtained some weeks beforehand and stored in a freezer 2 context

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amp0185 terms in this set 42 chicken wing dissection what happens when you pull on the biceps flexion at the elbow is the bicep a flexor or extensor flexor where is the origin of the biceps brachii the shoulder where is the insertion

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chicken wing dissection skeletal and muscular systems purpose to observe how the muscular and skeletal systems work together to move support a chicken's wing and relate this to the arrangement of comparable anatomical structures of the human body lab report you will submit a lab report on lined notebook paper

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to dissect a chicken leg lab practice seventh grade lab report 1 title to dissect a chicken leg 2 objectives to identify the lab practices as axis of work in the biology to identify the structure of the musculoskeletal system through the dissection of the chicken leg in biology's lab to consolidate the knowledges with a lab practice 3

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describe how it feels station 4 straighten the chicken wing and hold it horizontally above the tray have your partner pull on each of the muscles and note the movement that each muscle causes turn the wing upside down and bend the joints pull on each muscle and note how the bones move 5a explain how pulling on muscles causes motion 5b

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the lab report will contain the sketch below labeled as instructed a completed version of the chicken wing dissection table answers to discussion questions a k and analysis questions 1 7 in complete sentences a thoroughly completed concluding paragraph joint b joint c joint a figure 1 draw a sketch and label before dissection make a

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chicken wing dissection how do the muscles bones and tendons work together to move a joint of a chicken wing and how do they compare to a human arm although many differences exist between the anatomy of humans and chickens one structure that shows similarities in muscle pairing and range of motion is a bird s wing

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conclusion 2 points 22 based upon your observations in this activity explain either how the chicken wing or the human arm moves using all the following terms in your answer brain muscles tendons bones joints you use the ball and socket joint the biceps will contract while the triceps extends the biceps will extends while the triceps

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raw chicken wing dissection scissors dissection pan probe gloves pre lab questions use your notes or the student workbook to answer these questions 1 what are the three basic types of muscle which type of muscle will be observed in the chicken wing 2 what is the difference between ligaments and tendons

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chicken wing dissection lab chicken wings are useful for studying antagonist pairs of muscles and connective tissues in this lab you will dissect a chicken wing to observe the muscles and their action then you will prepare a wet mount of roast beef to observe striated muscle under the microscope

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anatomy and histology lab chicken wing dissection background an uncooked chicken wing is ideal for studying anatomy and histology and is remarkably similar to the human arm review the diagrams below before answering the pre lab questions pre lab questions 1 what type of organs are the humerus radius and ulna bones 2

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muscle what joint did you use to lift the heavy object elbow a hinge joint start studying chicken wing dissection lab learn vocabulary terms and more with flashcards games and other study tools

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subject assignment title chicken dissection purpose how does the structure of the organs of the skeletal and muscular systems of a chicken hindquarter compare to those in humans hypothesis if the structure of the organs in a chicken

hindquarter are similar to those of a human then the function of the organs will also be similar