	 Retroitin dalices using simple intovernent. Swimming proficiency at 25m (KS1 or KS2) 	ght I importance	•e.g. Bonfire night •Events of local importance	Physics Observe weather associated with changes of season
Continue to follow locally- agreed syllabus for RE	Participate in team games	•Significant local people	materials Key Events	 Identify & name common materials Describe simple properties of some materials Compare & classify materials
5	movement, e.g. running, jumping, throwing, catching, balance, agility and co-ordination	including comparison of those from different periods	29	Chemistry • Distinguish between objects & materials
C. Broad	Master hasir	el ives of significant historical figures.	Key Individ	 Identify & compare common animals Identify & name basic body parts
Religious		 Changes in living memory (linked to aspects or national life where appropriate) 		 Identify basic plants (roots, leaves, flowers, etc.)
 Make and combine sounds involvenly 		History (KS1)	Key Concepts	Science
music	Not required at KS1			simple arrays
Listen & understand live and recorded		5		zero
Play tuned & untuned instruments musically	(2	 Use language of days, weeks, months & years 	 add and subtract one-digit and two-digit numbers to 20, including
• Sing songs	Niodelii		Use time & ordering vocabularyTell the time to hour/half-hour	Use +, - and = symbolsKnow number bonds to 20
Misic west	where rood	*Necognise of the factor of the	•Recognise coins & notes	Use language, e.g. 'more than', 'most'
local & familiar features Use four compass directions & simple vocab	Build and improve structure & mechanisms	Fractions		 Read & write numbers to 20
of the world Use basic geographical vocabulary to refer to	• Evaluate existing products & own ideas	including half and quarter turns		•Count to / across 100 •Count in 1s, 2s, 5s and 10s
 identify seasonal / daily weather patterns in the UK and the location of hot and cold areas 	Use range of tools & materials to complete practical tasks	• Describe position & movement	Geometry & Measures	Number/Calculation
the four countries and capital cities of the United Kingdom using atlases & globes	Generate, model & communicate ideas		Mathematics	
Name & locate	products		teachers	 Make simple predictions
Geography (Y1)	Design & Technology (KS1)	Diameter Spanning	Read own writing to peers or	Discuss significance of title &
Kecognise uses of it outside of scribor		Ask relevant questions Maintain attention & participate		•Link reading to own experiences
Communicate online safely and respectfully	designers	Listen & respond appropriately	 Form lower case letters correctly Form capital letters & digits 	purpose Pearl phonics books aloud
Organise, store, retrieve & manipulate data	Learn about range of artists, craftsmen and decimars	•Use common plural & verb suffixes		Read contractions & understand
predictions	line, shape, form and space	•Use capital letters for	•Spell days of the week	•Read words with very common
Use logical reasoning to make	Develop techniques of colour, pattern, texture,	punctuation: .?!	words	sounds
Write & test simple programs		Begin to use basic	Match graphemes for all phonemes •Name letters of the alphabet •Snell year common 'exception'	Match graphemes for all phoner
Understand use of algorithms	 Use a range of materials 	Grammar	Writing	Reading
Computing (KS1)	Art & Design (KS1)		English	
	VIEW IOI TEGIL T	Curriculum Overview Ion		

Biology •Differentiate living, dead and non-living •Growing plants (water, light, warm •Basic needs of animals & offspring •Simple food chains & habitats Chemistry •Identify and compare uses of diffe •Compare how things move on diffi	•Compare / order numbers, inc. <> = •Write numbers to 100 •Know number facts to 20 (+ related to 100) •Use x and ÷ symbols • Recognise commutative property of multiplication	Number/Calculation •Know 2, 5, 10x tables •Begin to use place value (T/U) •Count in 2s, 3s, 5s & 10s •Identify, represent & estimate numbers	 Become familiar with & retell stories Ask & answer questions; make predictions Begin to make inferences 	Read & re-read phonic-appropriation books Read common 'exception' words Discuss & express views about fiction, non-fiction & poetry	Reading • Develop phonics until decoding secure • Read common suffixes	
Science Biology Differentiate living, dead and non-living dead and non-living dead and non-living surface and plants (water, light, warmth) Basic needs of animals & offspring Simple food chains & habitats Chemistry Identify and compare uses of different materials Compare how things move on different surfaces		mate mate	make	onic-appropriate •Spell u •Use ap ception' words spaces views about •Develo v stamin	decoding	
	Tell time to the nearest 5 minutes identify & sort 2-d & 3-d shapes identify 2-d shapes on 3-d surfaces Order and arrange mathematical objects Use terminology of position & movement	Mathematics Geometry & Measures •Know and use standard measures •Read scales to nearest whole unit •Use symbols for £ and p and add/subtract simple sums of less than £1 or in pounds	Record ideas for writing Record ideas sentence-by-sentence •Use spoken language to develop Make simple additions & changes after proof-reading Initiate & respond to comments understanding understanding	 Read & re-read phonic-appropriate Spell using common suffixes, etc. books Read common 'exception' words Discuss & express views about Develop positive attitude & stamina for writing 	y seg	English
Key Concepts •Changes in living memory (linked to aspects of national life where appropriate) Key Individuals •Lives of significant historical figures, including comparison of those from different periods •Significant local people Key Events •Events of local importance		sures unit less	sentence • Use spoken hanges		Grammar honemes •Use .!?, and ' ception' •Use simple conjunctions •Begin to expand	Bernard San
History (KS1) S living memory (linked to aspects of a where appropriate) als Lives of significant historical figures, including comparison of those from different periods Significant local people e night e night	pictograms •Ask & answer comparison questions •Ask & answer question about totalling	•Fractions •Find and write simple fractions •Understand equivalence of e.g. 2/4 = 1/2 Data •Interpret simple tables &	Use spoken language to develop understanding	oUse some features of standard English Speaking & Listening Articulate & Justify answers	oand	
Physica • Master basic movement, e.g catching, balan • Participate in to Perform dance:	Modern	Generate, model & communicate Use range of tools & materials to complete practical task Evaluate existing produ Build and improve structure &	Design & • Design purposeful, products	line, shape, for Learn about ra designers	 Use a range of materials Use drawing, painting ar Develop techniques of c 	A
Physical Master basic movement, e.g. running, jumping, throwing, catching, balance, agility and co-ordination Participate in team games Perform dances using simple movement Swimming proficiency at 25m (KS1 or KS2)	Languages Not required at KS1	Use range of tools & materials to complete practical tasks • Evaluate existing products & own ideas • Build and improve structure & mechanisms • Understand where food comes from	Design & Technology (KS1) • Design purposeful, functional & appealing products	line, shape, form and space Learn about range of artists, craftsmen and designers	Use a range of materials Use drawing, painting and sculpture Develop techniques of colour, pattern, texture,	rt & Design (KS1)
on (KS1) rowing, nation ent	→ Mus		Geog		5	
Religious Educ Continue to follow locally- agreed syllabus for RE	Music (KS1) Sing songs Play tuned & untuned instruction to the content of the con	world's continents and oceans Compare local area to a non-Europear Use basic vocabulary to describe a less area Use aerial images and other models to simple plans and maps, using symbols Use simple fieldwork and observations Study the immediate environment	Geography (72) Name & locate	predictions Organise, store, retrieve & manipulate Communicate online safely and respe Recognise uses of IT outside of school	Write & test simple programs Use logical reasonin	Computing (KS1)
Education ollow locally- abus for RE	Play tuned & untuned instruments musically Listen & understand live and recorded music	Compare local area to a non-European country Use basic vocabulary to describe a less familiar area Use aerial images and other models to create simple plans and maps, using symbols Use simple fieldwork and observational skills to study the immediate environment	5	predictions Organise, store, retrieve & manipulate data Communicate online safely and respectfully Recognise uses of IT outside of school	nd use of algorithms est simple programs Use logical reasoning to make	ing (KS1)
	ally .	to		NR BALL		

Chemistry Discuss reading with others Simple forces, including magnetism Sources of light; shadows & reflections Simple understanding of fossilisation Animals: skeletons & nutrition Plants, incl. parts, Science Check own understanding of Read range of fiction & non-fiction Write simple dictated sentences Use knowledge to read 'exception' Use prefixes & suffixes in spelling Classification of rock types Retrieve & record information from • Create simple settings & plot Draw inferences & make Prepare poems & plays to perform •Plan to write based on familiar Use dictionaries to check meaning Use handwriting joins appropriately pronouns Learn 3, 4 & 8x table Number/Calculation Solve number problems, including Mentally add & subtract units, tens • Measure simple perimeter Secure place value to 10 or hundreds to numbers of up to 3 and missing number problems multiplication & simple division lifecycle and requiremen ubtraction /ritten column addition & Use varied rich vocabulary Use dictionary to confirm spellings Assess effectiveness of own and Rehearse sentences orally for Add/subtract using money in Geometry & Measures others' writing Calculate using simple time Measure & calculate with metric Use Roman numerals up to XII Draw 2-d / Make 3-d shapes Identify horizontal, vertical Identify and use right angles perpendicular and parallel line **Mathematics** English British History (taught chronologically) A local history study, e.g. Stone Age to Iron Age Britain, including: A depth study linked to a studied - hunter-gatherers and early farmers A study over a period of time Bronze age religion, technology & travel A post-1066 study of relevant local history er History Study Use perfect tense Use range of conjunctions Know language of clauses Introduce speech punctuation •Use range of nouns & Participate activity in conversation Give structured descriptions Speaking & Listening Use time connectives Use & count in tenths Fractions & decimals Order fractions with common Recognise, find & write fractions Add/subtract fractions up to <1 Recognise some equivalent denominator Interpret bar charts & History Consider & evaluate different viewpoints Understand seasonality; prepare & cook Listen & engage Ask & answer questions Learn about great artists, architects & designers Improve mastery of techniques such as drawing Show understanding of words & phrases Use research& criteria to develop products which painting and sculpture with varied materials Broaden vocabulary Appreciate stories, songs, poems & rhymes Develop appropriate pronunciation Speak in sentences using familiar vocabulary prototypes to explain ideas Use annotated sketches and are fit for purpose Use sketchbooks to collect, record and evaluate Swimming proficiency at 25m (KS1 or KS2) Compare performances to achieve personal Play competitive games, modified as appropriat Use running, jumping, catchi Develop flexibility & control in gym, dance & and throwing in isoli Design & Technology (LKS2) Physical Modern Evaluate existing products an Use mechanical systems in own work improve own work Art & Design (LKS2) and in combination Education (LKS2) Languages (LKS2) Music (LKS2) Geography (LKS2 Locate world's Design & write programs to achieve specific Collect and present data appropriately Use internet safely and appropriately Use 8 points of compass, symbols & keys Study a region of the UK (not local area) Use fieldwork to observe, measure & record Describe & understand climate, rivers, settlements, trade links, etc. mountains, volcanoes, earthquakes focus on key physical & human features countries, focussing on Use voice & Appreciate wide range of live & recorded Begin to develop understanding of history Religious goals, including solving problems nstruments with increasing accuracy, control Listen with attention to detail Use logical reasoning Continue to follow locally and expression agreed syllabus for RE Computing (LKS2) Improvise & compose music Understand computer networks Europe & Americas Education

	 Swimming proficiency at 25m (KS1 or KS2) 	Ancient Egypt; or Shana Dynasty of Ancient China		
	Compare performances to achieve personal bests	illey;		 Sound as vibrations Electricity: simple circuits & conductors
agreed syllabus for RE	Develop flexibility & control in gym, dance & athletics	Earliest ancient civilisations, i.e.	Broader History Study Earliest ancient civilization Ancient Sumer:	Physics
Continue to follow locally-	Play competitive games, modified as appropriate	5	7	•The water cycle
	and throwing in isolation and in combination			•Changes of state
	Use running, immoine, catching	British resistance, e.g. Boudicca - Romanisation of Britain	- British re	Chemistry
Religious (Education	1	Julius Caesar's attempted invasion Roman Empire & successful invasion	- Julius Ca - Roman E	•Digestive system & teeth
Begin to develop understanding of history	Broaden vocabulary	Roman Empire & impact on Britain:	Roman En	•Classify living things
 Appreciate wide range of live & recorded music 	Appreciate stories, songs, poems & rhymes	Ritish History (faught chronologically)	Rritish History	Science)
Listen with attention to detail	Develop appropriate pronunciation Show understanding of words & phrases	\ \ \	eUse bar charts, pictograms & line graphs	
and expression	Speak in sentences using familiar vocabulary	5	Data	Use standard short multiplication
instruments with increasing accuracy, control	Ask & answer questions	•Solve money problems	Use first quadrant coordinates Introduce simple translations	to 4 digits Nuttinity & divide mentally
• Use voice &	Listen & engage	numbers	•Identify symmetry	•Column addition & subtraction up
Music (LKS2)	Modern) (Languages (LKS2)	Recognise common equivalents Round decimals to whole	 Identify acute, obtuse & right angles 	or 1000
OSE HEIDAMOLVIC OBSELACY HICCORD CO. LEGICA	savoury dishes	common denominators	•Estimate & calculate measures	•Round numbers to nearest 10, 100
	Understand seasonality; prepare & cook mainly	Add & subtract fractions with	Calculate rectangle perimeters	Use negative whole numbers
mountains, volcanoes, earthquakes, water	Use mechanical systems in own work	•Recognise tenths & hundredths	quadrilaterals & triangles	•Know all tables to 12 x 12
	improve own work	octions of accountage	Compare 2-d shapes, including	Number/ Calculation
Study a region of the UK (not local area)	prototypes to explain ideas	Fractions & decimals	Wathematics	
countries, focussing on Europe & Americas focus on key physical & human features	Use annotated sketches and			
Locate world's	are fit for purpose	listeners		Identify & summarise ideas
Geography (Lisz)	Design & Technology (LKS2)	Gain, maintain &	•Read own writing aloud	Recognise a variety of forms of
		•Speak audibly in Standard English	•Evaluate own and others' writing	predictions
		Speaking & Listening Articulate & justify opinions	Proof-read for spelling &	Retrieve & record information Make informace & justify
Collect and present data appropriately		 Use commas after front adverbials 	 Use simple organisational devices 	 Identify themes & conventions
 Use internet safely and appropriately 	Learn about great artists, architects & designers	direct speech	Organise writing into paragraphs	capture the imagination
Understand computer networks	painting and sculpture with varied materials	nouns for clarity	Plan writing based on familiar	Retell some stories orally
Use logical reasoning	 Improve mastery of techniques such as drawing, 	•Select pronouns and	 Increase regularity of handwriting 	 Read for a range of purposes
goals, including solving problems	ideas	Use perfect tense appropriately	homophones	•secure decoding of unfamiliar words
Design & write programs to achieve specific	Ilso skatchbooks to collect record and evaluate	Grammar	Writing	
Computing (LKS2)	Art & Design (LKS2)	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	English	
	ALCAA IOI ICCI T	Callicalati		

	0 g	9.0			9.20	
Physics ◆Understand location and interaction of Sun, Earth & Moon ◆Introduce gravity, resistance & mechanical forces	 & animals (inc. mammal, insect, bird, amphibian) Describe changes as humans develop & mature Chemistry Classify materials according to a variety of properties Understand mixtures & solutions Know about reversible changes; identify irreversible 	Science Biology •Life cycles of plants	Use standard written methods for all four operations Confidently add & subtract mentally Use vocabulary of prime, factor & multiple Multiply & divide by powers of ten Use square and cube numbers		ons	Reading Apply knowledge of morphology & •Secure spelling, inc. homopetymology when reading new etymology when reading new etymology when reading new •Use a thesaurus •Reading & discuss a broad range of •Legible, fluent handwriting genres & texts •Plan writing to suit audience •Identifying & discussing themes •Purpose
8	F	Britis • A	Measure & identify angles Understand regular polygons Reflect & translate shapes Data Interpret tables & line graphs Solve questions about line graphs	t units nposite	Develop character, setting and Spathonsphere in narrative Use organisational & presentational of features Use consistent appropriate tense Proof-reading Perform own compositions	ohones,
ncient Greece, i.e. A study of Greek life and achievements and their influence on the western world	Invasions, settlements & kingdoms Viking invasions; Danegald - Edward the Confessor ler History Study	History British History (taught chronologically) Anglo-Saxons & Vikings, including:	•Write decimals as fractions •Order & round decimal numbers •Link percentages to fractions & decimals	•Compare & order fractions •Compare & order fractions •Add & subtract fractions with common denominators, with mixed numbers	• Give well-structured explanations • Command of Standard English • Consider & evaluate different viewpoints Use appropriate register	• Use expanded noun phrases • Use modal & passive verbs • Use relative clauses • Use commas for clause • Use brackets, dashes & commas for parenthesis
	Use running, jumping, catching and throwing in isolation and in combination Play competitive games, applying basic principles Develop flexibility & control in gym, dance &	 Adapt known language to create new ideas Describe people, places & things Understand basic grammar, e.g. gender 	Listen & engage Engage in conversations, expressing opinions Speak in simple language & be understood Develop appropriate pronunciation Present ideas & information orally Show understanding in simple reading	Use annotated sketches, cross-section diagrams & computer-aided design Analyse & evaluate existing products and improve own work Use mechanical & electrical systems in own products, including programming Cook savoury dishes for a healthy & varied diet	Design & Technology (UKS2) • Use research & criteria to develop products which are fit for purpose and aimed at specific groups	• Use sketchbooks to collect, record, review, revisit & evaluate ideas • Improve mastery of techniques such as drawing, painting and sculpture with varied materials • Learn about great artists, architects & designers
(Religious Education Continue to follow locally- agreed syllabus for RE	 Use & understand basics of staff notation Develop an understanding of the history of music, including great musicians & composers 	Perform with control & expression solo & in ensembles dimensions of music Listen to detail and recall aurally	 counties, cities, regions & features of UK Understand latitude, longitude, Equator, hemispheres, tropics, polar circles & time zones Study a region of Europe, and of the Americas Understand biomes, vegetation belts, land use, economic activity, distribution of resources, etc Use 4- and 6-figure grid references on OS maps Use fieldwork to record & explain areas 		Design & write programs to solve problems Use sequences, repetition, inputs, variables and outputs in programs Detect & correct errors in programs

• Health • Evolut Physics	•Introduce •Introduce Science Biology •Classificati	• Secure i roundin negative • All writt division • Use ord indices) • Jolev me • Solve m	• Summari • Identify H • Discuss W	Reading • Read a • Recom • Make c books
 Including micro-organisms Health & Lifestyles, incl. circulat Evolution & Adaptation Physics Light & Shadows; the eye Forces, including gravity Electricity: investigating circuits 	Algebra Introduce simple use of unknowns Science Biology Classification,	Number/Calculation Secure place value & rounding to 10,000,000, including negatives All written methods, including long division Use order of operations (not indices) Identify factors, multiples & primes Solve multi-step number problems	Summarising key points from texts Identify how language, structure, etc. contribute to meaning Discuss use of language, inc. figurative Discuss & explain reading, providing reasoned justifications for views	Reading •Read a broad range of genres •Recommend books to others •Make comparisons within/across books
 Health & Lifestyles, incl. circulatory system Evolution & Adaptation Physics Light & Shadows; the eye Forces, including gravity Electricity: investigating circuits 	of unknowns	including long ons (not tiples & primes aber problems	om texts ucture, g nc.	
ystem	•Use pie charts •Calculate mean averages British	Geometry & Measures Confidently use a range of measures & conversions Calculate area of triangles / parallelograms Use area & volume formulas Classify shapes by properties Know and use angle rules Translate & reflect shapes, u	• Print writing to suit dutierite or purpose; use models of writing in narrative • Select grammar & vocabulary f effect • Use a wide range of cohesive devices • Ensure grammatical consistence Mathematics	English Writing •Use knowledge of morph etymology in spelling •Develop legible personal handwriting style
- The changing po - Significant turnin - Crime & punishrr - Crime & punishrr - Leisure - Leisure - Broader History Study - Non-European soc	n averages British Histor An exten	Geometry & Measures Confidently use a range of measures & conversions Calculate area of triangles / parallelograms Use area & volume formulas Classify shapes by properties Know and use angle rules Translate & reflect shapes, using all four quadrants	• Prial withing to suit dutience of purpose; use models of writing in narrative • Select grammar & vocabulary for effect • Use a wide range of cohesive devices • Ensure grammatical consistency Mathematics	English Writing *Use knowledge of morphology & etymology in spelling *Develop legible personal handwriting style
- The changing power of monarchs - Significant turning points in British his - Crime & punishment - Leisure - Leisure ader History Study Non-European society, i.e. Islamic civilization, including Baghdad	proportion History British History (taught chronologically) An extended period study, e.g.		*	
- The changing power of monarchs - Significant turning points in British history - Crime & punishment - Leisure - Leisure der History Study Non-European society, i.e. Islamic civilization, including Baghdad	logically)	*Compare & simplify fractions *Compare & simplify fractions *Use equivalents to add fractions *Multiply simple fractions *Divide fractions by whole numbers *Solve problems using decimals & percentages *Use written division up to 2dp *Introduce ratio &	Use language of subject/object Speaking & Listening Use questions to build knowledge Articulate arguments & opinions Use spoken language to speculate, hypothesise & explore	Grammar Use appropriate register/ style Use the passive voice for purpose Use features to convey Calarify meaning
			• • •	
Physical Seducation (UK Use running, jumping, catching and throwing in isolation and in combination Play competitive games, applying basic princip Develop flexibility & control in gym, dance & athletics Take part in Outdoor & Adventurous activities	Engage in conversations, expressing opinions Speak in simple language & be understood Develop appropriate pronunciation Present ideas & information orally Show understanding in simple reading Adapt known language to create new ideas Describe people, places & things Understand basic grammar, e.g. gender	• Analyse & evaluate existing products and improve own work • Use mechanical & electrical systems in products, including programming Cook savoury dishes for a healthy & varied diet Modern Listen & engage	Design & Technology (UKS2) Use research& criteria to develop products whice are fit for purpose and aimed at specific groups Use annotated sketches, cross-section Use annotated sketches and design	Art & Design (UKS2) Use sketchbooks to collect, record, review, revis & evaluate ideas Improve mastery of techniques such as drawing painting and sculpture with varied materials
olation and in games, applying & control in gy	nversations, expressing op ple language & be underste ropriate pronunciation s & information orally standing in simple reading relanguage to create new ic ple, places & things basic grammar, e.g. gender	• Analyse & evaluate existing products and improve own work • Use mechanical & electrical syste products, including programming avoury dishes for a healthy & variety foldern Language & engage	& Technology (UKS2) & criteria to develop product cose and aimed at specific g d sketches, cross-section d sketches, cross-section	Art & Design (UKSZ) hbooks to collect, record, e ideas mastery of techniques such and sculpture with varied r
Physical Use running, jumping, catching and throwing in isolation and in combination Play competitive games, applying basic principles Develop flexibility & control in gym, dance & athletics Take part in Outdoor & Adventurous activities	ing opinions Inderstood on y ading new ideas gender	Analyse & evaluate existing products and improve own work Use mechanical & electrical systems in own products, including programming woury dishes for a healthy & varied diet Languages (UKS2)	Design & Technology (υκ22) Use research& criteria to develop products which are fit for purpose and aimed at specific groups Use annotated sketches, cross-section Use annotated sketches are section	Art & Design (UKS2) Use sketchbooks to collect, record, review, revisit & evaluate ideas Improve mastery of techniques such as drawing, painting and sculpture with varied materials
Religious	· Listen to · Develop music, ir	. N		(.
Continue to follow locallyagreed syllabus for RE	• Improvise & compos dimensions of music Listen to detail and recall aurally Use & understand basics of staff r Develop an understanding of the music, including great musicians &	hemispheres, tropiçs, polar circles & tin Study a region of Europe, and of the Am Understand biomes, vegetation belts, le economic activity, distribution of resou Use 4- and 6-figure grid references on C Use fieldwork to record & explain areas sic (UKS2)	Understand uses of neto & communication Be discerning in evaluat Comme & locate Counties, cities, regions Understand latitude, lor	Computing (UKS2) write programs to solve Use sequences, repetiti variables and outputs ir
Education Sillow locally- bus for RE	Improvise & compose using dimensions of music Listen to detail and recall aurally Use & understand basics of staff notation Develop an understanding of the history of music, including great musicians & composers	hemispheres, tropiçs, polar circles & time zones Study a region of Europe, and of the Americas Understand biomes, vegetation belts, land use, economic activity, distribution of resources, etc. Use 4- and 6-figure grid references on OS maps Use fieldwork to record & explain areas	Understand uses of networks for collaboration & communication Be discerning in evaluating digital content Be discerning in evaluating digital content Be discerning in evaluating digital content Content Be discerning in evaluating digital content Be discerning in evaluating digital content Con	Computing (UKS2) Design & write programs to solve problems Use sequences, repetition, inputs, variables and outputs in programs Detect & correct errors in programs
Q Q	es g g g of	ne zonericand u	ent	ems outs,