Houses and Homes in the Curriculum for Excellence

A comprehensive guide to planning a programme of learning and teaching linking to many subject/topic areas of the curriculum.

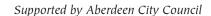
Devised by teachers and other education professionals working in partnership with the Aberdeen Urban Studies Trust

Layout: Design and Marketing Team, Aberdeen City Council

Aberdeen Urban Studies Trust Braeside School Braeside Place Aberdeen AB15 7TX

Tel: 01224 313953

E-mail: enquiries@austrust.org.uk Website: www.austrust.org.uk





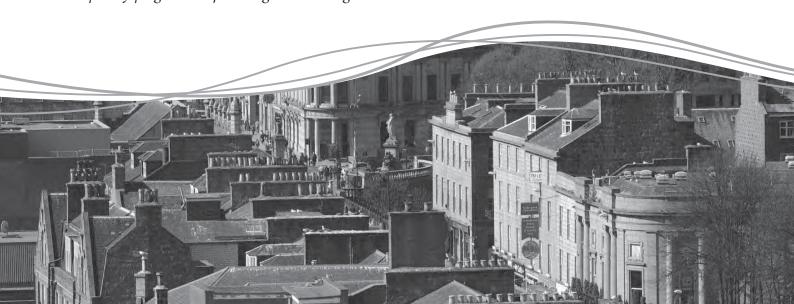




# Houses and Homes

Built Environment Education in the context of the Curriculum for Excellence

*Ideas for planning a structured, integrated, cross-curricular, inter-disciplinary programme of learning and teaching* 



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# Houses and Homes

Houses and Homes

Ideas for planning a structured, integrated, cross-curricular, inter-disciplinary programme of learning and teaching in the context of the Curriculum for Excellence.

#### Introduction

Over the years Aberdeen Environmental Education Centre (AEEC) has produced several resource booklets containing ideas for learning and teaching dealing with energy education, nutrition, farming and food production. Having been very well received by teachers, and to coincide with the introduction of the new curriculum for Scotland, we have devised this booklet to encourage teachers to plan cross-curricular, inter-disciplinary programmes of work dealing with the built environment and, in particular, houses.

'Houses and Homes' is a popular context for learning and teaching especially within primary schools. Set within the framework of Scotland's Curriculum for Excellence, the booklet deals with all the subject areas where there is potential for studying aspects of houses and homes. It will enable teachers to plan their own programmes of work by selecting appropriate areas of study which fulfil their own particular curricular objectives.

Learning and teaching resources produced by AEEC, designed for use by pupils and teachers, can be downloaded from www.austrust.org.uk, the website of the Aberdeen Urban Studies Trust (AUST) which has been formed to carry on the work of the Aberdeen Environmental Education Centre. Pupil resources (personal record sheets) deal with the design of houses and have been devised for use in the environment around school. They are suitable for pupils from early stages in primary school through to early secondary. The 'My House' resource provides pupils with information about house design and the personal record sheets to compare with their own home.

#### Websites

Engaging Places contains a wealth of information about using the built environment for learning and teaching, and is a useful starting point for additional ideas and resources. http://www.engagingplaces.org.uk

#### Other very good sites include:

http://www.ewht.org.uk/Pupils-study-World-Heritage-architecture.aspx http://ihpe.mhcat.cat/index.php http://www.photoarch.org.uk/photoarch/default.aspx www.schoolzone.co.uk/resources/geog.html www.cmac.uk/places/eu/html http://pbs.org/wgbh/buildingsbig/lab/index.html http://www.architecture.about.com/library/bl-basics.htl http://architecture.about.com/cs/timeline http://www.howstuffworks.com/toilet.htlm www.nts.org.uk/learn/schools\_resource.php http://maps.nls.uk/ www.historic-scotland.gov.uk/learning www.aberdeenheritage.org.uk/kidsfun.asp

#### Acknowledgements:

Edinburgh-based architect, Sebastian Tombs, worked with AEEC to initiate projects designed to raise young people's awareness and appreciation of the architecture around them. His practical assistance and encouragement for this project was an inspiration.

lain Mitchell, Principal Teacher of Art with Aberdeenshire Council, provided many of the ideas for work in Art and Design, all of which were tried and tested during the pilot phase for the publication of 'Houses and Homes' supported by the Grampian Education Business Partnership 2002.

Aberdeen City Heritage Trust has worked on and helped fund the preparation of these teaching materials.

#### Help us to help you

Keep in contact with us through our e-mail at enquiries@austrust.org.uk

More information and latest developments can be viewed at www.austrust.org.uk where you can download our learning and teaching resources, and post comments.

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## 3-18 A Curriculum for Excellence

#### Curriculum Levels

Level	Stage
Early	Pre-school and P1
First	To the end of P4, but earlier for some children
Second	To the end of P7, but earlier for some children
Third and Fourth	S1 to S3, but earlier for some. The fourth level broadly equates to SCQF level 4. Young people's programmes will not include all of the fourth level outcomes: in most curriculum areas, the fourth level experiences and outcomes are intended to provide possibilities for choice. (Further guidance is available within the Building the Curriculum series.)
Senior Phase	S4 to S6

STAGE	LEVELS : Curriculum for Excellence 3 - 18			LEVEL	S : 5 - 14		
Pre-School	Early						
P1	Early					Level A	Early Stages
P2	Early	First				Level A	Early Stages
P3		First				Level A / B	Early Stages
P4		First	Second			Level B / C	Middle Stages
P5		First	Second			Level C / D	Middle Stages
P6			Second			Level C / D	Middle Stages
P7			Second	Third / Fourth		Level D / E	Upper Stages
S1			Second	Third / Fourth		Level E / F	Upper Stages
S2				Third / Fourth		Level E / F	Upper Stages
S3				Third / Fourth			
S4					Senior		
S5					Senior		
S6					Senior		
College					Senior		

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## Cross-curricular, inter-disciplinary planning grid for: Upper Stages / Early Secondary

#### Science

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#### Planet Earth

 discuss different types of energy used in homes or schools e.g. solar, photo voltaic arrays, windmills SCN 3-04b

#### Forces, Electricity and Waves

#### Forces

· look at the design of toilet cisterns and ways to reduce cistern capacity, without compromising effectiveness SCN 2-08b

investigate the use of photo voltaic cells in domestic and school applications SCN 3-08a

#### Materials

#### Earth's Materials

- discuss the differences between materials with respect to energy conservation (insulation, utilisation of sunshine, heat storage), where and how they are used and why
- investigate why materials have been chosen for specific
- e.g. slates for roofing, glass fibres for insulation, rubber for seals SCN 2-17a  $\,$

#### Materials

#### Chemical Changes

- investigate what emerges when burning: wood, coal, smokeless fuel, oil, gas, paraffin
- investigate the chemical/heat transference processes involved in the operation of a refrigerator SCN 3-19b

#### People in Society, Economy and Business

- discuss the appropriateness of any new development (new flats, football stadium) and whether it enhances or detracts from what is already in the neighbourhood SOC 4-15a
- · look at the impact of new housing estates on:
- the environment
- wildlife
- · identify a local area which requires conservation measures and draw up an action plan

#### People, Past Events and Societies

- investigate the development of housing utilities:
- energy for power and lighting
- sanitation SOC 3-01a

#### People, Place and Environment

- consider how we can make our homes more environmentally friendly in relation to:
- energy efficiency
- water management
- · investigate how pupils get from home to school
- consider the most environmentally-friendly method SOC 3-08a
- people have been moving into cities and returning to live in
- areas outwith the centre of towns since the 19th century
   investigate how these movements have affected people and the
- SOC 4-10a

#### Literacy and English Listening and Talking Creating Texts

- · discuss the main social and environmental impact of a new football stadium development beside a housing suburb
- pupils take on various roles, prepare and argue their case LIT 3-09a

#### Creating Texts

· draw up an action plan for an area which you feel requires conservation LIT 3-79a

#### Expressive Arts Art and Design

#### · make a colour study of the room you like best in your home

- why do you like it? EXA 3-03a
- look for and draw a new building in your area which you think does not fit in well with its surroundings
- draw the buildings/areas on either side of your chosen subject FXA 3-O4a
- · make a doll's house
- 6 groups each working with a crisp box creating different rooms to be combined into a home EXA 3-04a

#### Technologies

TCH 3-15k

#### Technological Developments in Society

- · investigate the best building materials for energy conservation
- find out the energy efficiency of building materials with respect to the sunshine, winds and temperatures in Scotland
- · consider the use of the car and other forms of transport, and
- the implications on how we use places · look at planning in different scales:

#### village, town, city TCH 3-02a

## Craft, Design, Engineering and Graphics Contexts for Developing Technological Skills and Knowledge

- design a finial for display on a particular building: - begin by looking for these in the local environment and investigate the inspiration behind the design(many finials reflect natural shapes and forms)

#### Topical Science

investigate the science involved with carbon capture in coal-fired SCN 4-02b

## Cross-curricular, inter-disciplinary planning grid for: Middle Stages

#### Planet Earth

#### Energy Sources and Sustainability

- · compare outside and inside the classroom/home
- · sort resources of heat, light and sound into natural and

SCN 1-04a

#### Processes of the Planet

- consider how the states of the water cycle effects homes: rain, water, ice
- observe these effects, and how buildings cope

#### Forces, Electricity and Waves

- investigate how shadows affect the area in and around the
- · think of ways to maximise daylight entering a building SCN 2-11b

#### Properties and Uses of Substances

 compare how long it takes for sugar to dissolve in hot and cold water, find out if the temperature of the water affects the amount that can be dissolved SCN 2-16b

#### Earth's Materials

discuss the properties of common building materials SCN 2-17a

#### Chemical Changes

how is 'grey water' - water which has been used

e.g. kitchen, bathroom (but not toilet) best used? SCN 2-18a

#### Expressive Arts Art and Design

- a figure drawing lesson of someone working with wood or stone:
- dress pupil as a joiner sawing or planing a piece of wood or a mason using a hammer and chisel

  colour studies of chalk, Cray-Pas crayon or paint of
- various types of brick/stone samples taken into school FXA 7-04a

pupils devise a production on the work of a construction company through the ages EXA 2-13a

#### Numeracy and Mathematics

investigate patterns in the environment around school MTH1-13a

#### Technologies

TCH 2-15b

#### Technological Developments in Society

consider what is used and recycled in the home TCH 1-02a

- natural and man-made materials in housing comparisons: texture, weight, suitability
- look for contrasts in the local environment
- colour, shape, building design, old, new, natural/man-made materials
- · fuels (differentiate between renewable and non-renewable) wood, charcoal, coal, peat, oil, oil substitutes (e.g. alcohol, vegetable oils)

#### Craft, Design, Engineering and Graphics Contexts for Developing Technological Skills and Knowledge

provide pupils with the opportunity to observe at home, in school, and in the built environment

#### Social Studies

#### People, Past Events and Societies

- through a study of Early Settlers look at building materials, house styles, locations, needs, and compare with
- look at examples of local heritage; study old maps of the local area and compare with today
- interview elderly residents about the local area long ago, and the different styles of homes
- compile a scrap book/DVD of change in building design in the local area
- look at features of housing through time SOC 2-01a
- · look at features of housing through time: Georgian, Victorian, Edwardian and modern periods SOC 2-02a
- comparison between past/present construction of houses, roofing materials, glass, interior design, waterproofing, insulation SOC 2-04a

#### People, Place and Environment

- · compare the environment around school with that of a contrasting area: city centre/rural; urban/suburban; coastal/inland
- · pupils make a study of their own home or a home of their choice and its surroundings
- examine the effect of bad weather on pupils' homes: flooding, falling trees, damage through high
- · develop knowledge of the physical features of Scotland and how they affect the design of our homes

SOC 2-12a

#### People in Society, Economy and Business

discuss the local area and how land is used for different purposes e.g. play areas, shopping, school, public parks, car parking, work SOC 2-16a

#### Literacy and English Writing

#### Creating Texts

- working in groups pupils become estate agents operating during different times in history
- language, and reference to materials will reflect house construction through the ages LIT 2-28a

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## Science

#### Second Senior Early **First** Third Fourth

Learning in the sciences will enable me to :

- · develop curiosity and understanding of the environment and my place in the living, material and physical world
- demonstrate a secure knowledge and understanding of the big ideas and concepts of the sciences
- develop skills for learning, life and work
- · develop the skills of scientific inquiry and investigation using practical techniques
- · develop skills in the accurate use of scientific language, formulae and equations
- · apply safety measures and take necessary actions to control risk and hazards • recognise the impact the sciences make on my life, the lives of others, the
- environment and on society • recognise the role of creativity and inventiveness in the development of the
- develop an understanding of the Earth's resources and the need for responsible
- use of them express opinions and make decisions on social, moral, ethical, economic and
- environmental issues based upon sound understanding develop as a scientifically-literate citizen with a lifelong interest in the sciences
- establish the foundation for more advanced learning and future careers in the sciences and the technologies.

- Learning in the sciences will enable me to :
- · develop curiosity and understanding of the environment and my place in the living, material and physical world
- · demonstrate a secure knowledge and understanding of the big ideas and concepts of the sciences
- develop skills for learning, life and work
- · develop the skills of scientific inquiry and investigation using practical techniques
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- the development of the sciences develop an understanding of the Earth's resources and the need for responsible use of them
- express opinions and make decisions on social. moral, ethical, economic and environmental issues based upon sound understanding
- develop as a scientifically-literate citizen with a lifelong interest in the sciences
- establish the foundation for more advanced learning and future careers in the sciences and the technologies.

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## Science

#### Planet Earth

#### Energy Sources and Sustainability

First	Second	Third
I am aware of different types of energy around me and can show their importance to everyday life and my survival.  SCN 1-04a	By considering examples where energy is conserved, I can identify the energy source, how it is transferred and ways of reducing wasted energy.  SCN 2-04a	By investigating renewable energy sources and taking part in practical activities to harness them, I can discuss their benefits and potential problems.  SCN 3-04b
<ul> <li>discuss electricity as a power source for heating, cooking and lighting</li> <li>using their own senses: identify feelings and sources of heat, light and sound</li> <li>compare outside and inside the classroom / home</li> <li>sort sources of heat, light and sound into natural and artificial</li> <li>how do we keep ourselves / houses / classes warm?</li> <li>how does light enter home / school?</li> <li>where is it lightest / darkest?</li> <li>identify loud and soft sounds</li> <li>what are favourite sounds and why?</li> <li>discuss everyday uses of heat, light and sound within the home</li> <li>make a list of household appliances that use electricity</li> <li>discuss the difference between mains electricity and battery power</li> <li>discuss the dangers associated with the use of electricity in the home</li> </ul>	• is heat energy a form of pollution, or is it a useful resource in the wrong place?  I can investigate the use and development of renewable and sustainable energy to gain an awareness of their growing importance in Scotland or beyond.  TCH 2-02b  • discuss different types of energy used in homes or schools e.g.  - solar  - photo voltaic arrays  - wind turbines  - localised sources  - remote sources - pylons/piping etc.  • The traditional sources of energy are:  - coal burning  - nuclear  - hydroelectric	discuss different types of energy used in homes or schools e.g.     solar     photo voltaic arrays     wind turbines
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## Cross-curricular, inter-disciplinary planning grid for: Early Stages: (early level-first level)

#### Science

#### Planet Earth

#### Energy Sources and Sustainability

- discuss electricity as a power source for heating, cooking and lighting
- · using their own senses: identify feelings and sources of heat, light and sound

SCN 1-04a

### Forces, Electricity and Waves

- Electricity
   make a list of household appliances that use electricity
- · discuss the difference between mains electricity and battery power
- discuss the dangers associated with the use of electricity in the home

#### Properties and Uses of Substances

investigate materials commonly used for building SCN O-15a

#### Numeracy and Mathematics, Measurement

- · pupils begin by looking at their own home and compare with others around
- which houses are smaller/larger?
- how does their home compare with the school building? MNU O-11a

#### Patterns and Relationships

- · investigate patterns on a wall
- take rubbings
- MTH O-13a

#### Shape, Position and Movement Properties of 2D and 3D Objects

· use the environment around the school to investigate 2D and 3D objects MTH 1-16

#### People, Past Events and Societies

- create a timeline of their grandparents, parents and their own homes
   look at different rooms, furniture, food, lifestyles, clothes, inventions SOC O-O1a
- discuss materials through time look at the exterior of houses in the local area and compare the building materials used with those of today
- · investigate old maps or photographs of their locality and note changes over the years SOC 1-O1a

#### Technologies

#### Technological Developments in Society

- name some common building materials
- look at the roofs of different houses and discuss their purpose and the materials used for construction focus on
- build a model home using different junk materials (plasticine, wooden blocks, clay)
- consider which other aids were used i.e. glue, tape, papier mache

- junk models of houses
- · ask pupils to think about what to do with the junk they did not need for their models
- · how do pupils' families/school deal with waste materials in the home or school

#### TCH O-O2a

#### Social Studies

- visit significant buildings in the local area and describe their main features
- · look at basic household resources and explore how to conserve these resources SOC 0-08a
- · look at the effects of weather on:
- building materials
- activities in and around the home

SOC 1 -12a

#### Literacy and English Listening and Talking

#### Finding and Using Information

invite grandparents to relate tales of their childhood LIT O-O4a

#### Writing

#### Organising and Using Information

- compare your life with that of your grandparents
- look at rooms in the house, furniture, food, clothes, lifestyles,

#### LIT O-26a

· write clear, concise instructions for using a piece of household equipment for then and now

LIT 1-26a

#### Art and Design

- take tools used for building into the classroom and use for pencil drawings EXA O-O4a
- · experiment with Cray-Pas crayons on coloured sugar paper to draw tools used in the building industry EXA 1-O2a

#### Drama

- create a street scene through mime, showing characters on the street and the work they do
- using mime demonstrate the work on building sites through time EXA 1-12a  $\,$

# Literacy and English Writing

Creating Texts

First	Second	Third
	I can convey information, describe events, explain processes or combine ideas in different ways.  LIT 2-28a  • working in groups, pupils become estate agents operating during different periods in history with language and reference to materials reflecting house construction through the ages  • write an inventory/description of the property	I can persuade, argue, evaluate, explore issues or express an opinion using a clear line of thought, relevant supporting detail and/or evidence.  LIT 3-29a  • draw up an action plan for an area which you feel requires conservation, listing all the things that need to be changed or improved and how this should be achieved.

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Science		
Planet Earth		
Processes of the Planet		
First	Second	Third
	I can apply my knowledge of how water changes state to help me understand the processes involved in the water cycle in nature over time.  SCN 2-05a	
	consider how the states of the water cycle effects homes     rain     ice     snow	
	observe these effects, and how buildings cope (in some countries design has to accommodate regular heavy snow where it is used as an insulant with shallow pitched roofs e.g. in - Scandinavia or Switzerland)	
	when water freezes it expands - consider the implications for building materials that are saturated or filled with water     think about porosity of different types of building	
	materials - importance of guttering and good drainage in a climate where high levels of rainfall are common	

# Science

# Forces, Electricity and Waves

Forces		
Early	Second	Third
Through everyday experiences and play with a variety of toys and other objects, I can recognise simple types of forces and describe their effects.  SCN 0-07a  • use toys such as Kapla to build towers; observe caratiliticus; and dichromostatateth decorricition works.  - use different shapes and forms	By investigating floating and sinking of objects in water, I can apply my understanding of buoyancy to solve a practical challenge.  SCN 2-08b  • look at the design of toilet cisterns and ways to raddox eliticir appoint; with thou compressiving efficients.	I have collaborated in investigations into the effects of gravity on objects and I can predict what might happen to their weight in different situations on Earth and in space.  SCN 3-08a  • possible bridge design • arched openings demonstrating route of forces • difference between compressive and tensile forces  compression  tension

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Literacy and English

Literacy and English		
Writing		
Organising and Using Information		
Early	Second	Third
Within real and imaginary situations, I share experiences and feelings, ideas and information in a way that communicates my message.  LIT 0-26a		
<ul> <li>compare your life with that of your grandparents</li> <li>look at rooms in the house, furniture, food, clothes, lifestyles, inventions</li> </ul>		
First		
I am learning to use my notes and other types of writing to help me understand information and ideas, explore problems, generate and develop ideas or create new text. LIT 1-25a		
• compare style of houses in the local area with those of a different location		
By considering the type of text I am creating <sup>6</sup> , I can select ideas and relevant information, organise these in a logical sequence and use words which will be interesting and/or useful for others. LIT 1-26a		
write clear, concise instructions for using a piece of household equipment for then and now		
<ul> <li>compare a rich person's house with that of a poorer person consider:</li> </ul>		
- size of house - building materials - furnishings - entertainment - health - hygiene		
• write about how your house has changed consider:		
- new windows - doors - extensions - repainting		
write about changes within the home		
- decorating - arrival of a new baby - new kitchen - new carpet		
- new Kitchen - new Carpet - bedding during summer and winter - look at the reasons for change		
<ul> <li>write an inventory of items in a room and describe them (inventories were used by wealthy people to identify the furnitur and belongings in rooms of castles and country houses)</li> </ul>	e	
describe how a sash and case window works		

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# Literacy and English Listening and Talking Creating Texts

First	Second	Third
		When listening and talking with others for different purposes, I can:
		discuss the main social and environmental impact of a new football stadium development being built beside a housing suburb
		• pupils take on various roles, prepare and argue their case
		discuss the main social and environmental impact of demolishing an important historic building

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Science Forces, Electricity and Waves		
Electricity		
Early	Second	Third
I know how to stay safe when using electricity. I have helped to make a display to show the importance of electricity in our daily lives.  SCN 0-09a  • make a list of household appliances that use electricity  • discuss the difference between mains electricity and battery power	I have used a range of electrical components to help to make a variety of circuits for differing purposes. I can represent my circuit using symbols and describe the transfer of energy around the circuit.  SCN 2-09a  • wiring up a bell or buzzer; creating a switch	
discuss the dangers associated with the use of electricity in the home		
First	1	Fourth
		Using a variety of sources, I have explored the latest developments in chemical cells technology and can evaluate their impact on society.  SCN 4-10b
		investigating the use of photo voltaic cells in domestic and school appliances
		consider impact and usefulness of batteries for storage of energy for use at a later date

# Science

Forces, Electricity and Waves Vibrations and Waves

First	Second	Third
	By exploring reflections, the formation of shadows and the mixing of coloured lights, I can use my knowledge of the properties of light to show how it can be used in a creative way.  SCN 2-11b	
	• investigate how shadows affect the area in and around ditchouse gewhere is it it is busp place to build a sumported or conservatory?	
	think of ways to maximise daylight entering a     bbildilingg	
	experiment with reflecting surfaces     mirrors     foil     add water to reflect light     consider how complementary colours work, and their applications in roomd digign	

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# Literacy and English

First	Second	Third
listen or watch for useful or interesting information and I use this to make choices or learn new things.  LIT 0-04a		
invite grandparents to relate tales of their childhood		

### Literacy and English Third **Fourth** Senior Early First Second I develop and extend my literacy skills when I have opportunities to: I develop and extend my literacy skills when I have opportunities to: communicate, collaborate and build relationships reflect on and explain my literacy and thinking skills, using feedback to help me improveaucisessitiety).provideusefulfeetbackfoodfless • communicate, collaborate and build relationships • reflect on and explain my literacy and thinking skills, using feedback to help me imppໜຍeadcsessitieb)ງກໜານdeusstiluféedbackfoodtbess engage with and create a wide range of texts¹ in different media, taking • engage with and create a wide range of texts 1 im different media, taking advantage adi/antageportunettapoofteneidayodfered by ICT • develop my understanding of what is special, vibrant and valuable about my own aadd/thecultitueesaadd/theiridagyagges • explore the richness and diversity of language<sup>2</sup>, thow it can affect me, and the wide widega no explore years which the modest mean can be accepted to the control of the modest mean can be accepted to the control of the modest mean can be accepted to the control of the modest mean can be accepted to the control of the modest mean can be accepted to the control of the modest mean can be accepted to the control of the c adduataggeofthbeopppatinitieseffeedbyl007T develop my understanding of what is special, vibrant and valuable about my own aadobtibecolitiwesaaddibeidaggages explore the richness and diversity of language2, how it can affect me, and the widerangeofwagsinwhilabh hadobbesscaarbecoaatiee extend and enrich my vocabulary through listening, talking, watching and reading. extend and enrich my vocabulary through listening, talking, watching and reading. In developing my English language skills: • It engage with a wide range of texts and am developing an appreciation of the richness and threathful Southaut Silteray, and linguistic hertage In developing my English language skills: • I engage with a wide range of texts and am developing an appreciation of the riabhaesនaddbæedthtob6Sottlad៤ទៅមើនធារាធានដល់វាច់ខ្លាំងទំនំបង់ងេចដែ · I enjoy exploring and discussing word patterns and text structures. · I enjoy exploring and discussing word patterns and text structures.

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# Science

#### Materials

Early	Second	Third
Through creative play, I explore different materials and can share my reasoning for selecting materials for different purposes.  SCN 0-15a  investigate materials commonly used for building: - slate - concrete brick - concrete tile - roof felt - granite - sandstone - discuss their suitability - take rubbings	By investigating common conditions that increase the amount of substance that will dissolve or the speed of dissolving, I can relate my findings to the world around me.  SCN 2-16b  • compare how long it takes for sugar to dissolve in hatchande conditionate; find out if the temperature of fittle out if the freship that mount that after he distings  • what happens when this cools?  - condensation in windows  - black mould in damp areas where moisture	
First	condenses  • "efflorescence" - salt staining on buildings.	
I can make and test predictions about solids dissolving in water and can relate my findings to the world around me.  SCN 1-16a  • salt: show how the varying concentration of salt in the Arctic Ocean creates the Gulf Stream current; could global warming switch the process off and stop the current of warm water coming to the British Isles?	Where does it come from?  • think about how some coastal areas have a more salty environment and how this effects the durability of materials	

# Science

#### Earth's Materials

First	Second	Third
	Having explored the substances that make up Earth's surface, I can compare some of their characteristics and uses.  SCN 2-17a	
	discuss the properties of common building materials - slate, tile, wood, glass, concrete, brick, harling	
	look at: - strength - durability -how long materials last? - malleability - rigidity - texture - colour - opacity - insulation - heat storage - resistance to weathering	
	compare: - granite & sandstone - man-made and natural materials	
	<ul> <li>discuss how easily repairable different materials are</li> <li>discuss the differences between materials with respect to energy conservation (insulation, utilisation of sunshine, heat storage), where and how are they used and why:</li> </ul>	
	<ul> <li>investigate why materials have been chosen for specific functions e.g. slates for roofing; glass fibres for insulation; rubber for seals</li> <li>investigate the energy required to produce materials ("embodied energy"): quarrying, transporting, manufacturing.</li> <li>Compare the amounts of energy used</li> </ul>	

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# Numeracy and Mathematics Information Handling

Data and Analysis

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First	Second	Third
I have explored a variety of ways in which data is presented and can ask and answer questions about the information it contains.  MNU 1-20a		
survey the types of homes in the area around school, display and interpret accurately		

# Numeracy and Mathematics

Shape, Position and Movement

Anale. Symmetry and Transformation

First	Second	Third
I can describe, follow and record routes and journeys using signs, words and angles associated with direction and turning.  MTH 1-17a		
describe the route taken on an investigation of the area in the immediate vicinity of school		
• think about views, landmarks, features, perspective		
• think about how you remember the route to school or how you remember where your house is		

• how is 'grey water' - water which has been used

• investigate how rain water is collected and used

e.g. kitchen, bathroom (but not toilet) - best

Materials Chemical Changes		
First	Second	
	I have investigated different water samples from the environment and explored methods that can be used to clean and conserve water and I am aware of the properties and uses of water.  SCN 2-18a	I have helpe activities to reactions in how we app practical wa

ped to design and carry out practical o develop my understanding of chemical involving the Earth's materials. I can explain oply knowledge of these reactions in practical ways. SCN 3-19b

Third

- what emerges when burning:
- wood (carbon dioxide, smoke and water vapour)
- coal (carbon dioxide, smoke and carbon particles)
- smokeless fuel (carbon dioxide, water vapour)
- oil (carbon dioxide, water vapour)
- gas (carbon dioxide, water vapour)
- paraffin (carbon dioxide, water vapour)
- investigate the chemical/heat transference processes involved in the operation of a refrigerator
- investigate heat pumps

#### Fourth

I can collect and analyse experimental data on chemical reactions that result in an obvious change in energy. I can apply my findings to explain the significance of the energy changes associated with chemical reactions.

#### SCN 4-19a

- reaction rates approximately double for a 10°C increase in ambient temperature (very approximately, where catalysts or enzymes are involved, see below):
- implications of global warming on plants and ecosystems
- catalysts (inorganic) and enzymes (organic /biological) can greatly reduce the energy required to complete a chemical reaction

Scionco

Science		
Topical Science		
First	Second	Third
		Fourth
		Having selected scientific themes of topical interest, can critically analyse the issues, and use relevant information to develop an informed argument. SCN 4-20b
		• investigate the science involved with carbon capture in coal-fired power stations
		<ul> <li>investigate the energy used in a building's construction and by a building in use ("embodied energy is the energy used in the manufacture, transportation and construction of buildings)</li> </ul>
		<ul><li>- where do materials come from?</li><li>- are some highly insulative materials very large users of energy in production?</li></ul>
		• consider the outputs from production of cement and other materials used in the building industry (5% of all CO2 emissions in the world are from the manufacture of cement; UPVC is less than 5 recyclable and has toxic by-products in manufacture and disposal)

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# Numeracy and Mathematics Number, Money and Measure Properties of 2D Shapes and 3D Objects First Second Third I can explore and discuss how and why different shapes fit together and create a tiling pattern with MTH 1-16b • use the environment around school to investigate 2D and 3D shapes • look at decorative floor tiles in an old building's vestibule, parquet flooring • think about how the bricks/stones are laid out at the corner of a building • think about why different geometric shapes are used, by creating a mosaic

# Numeracy and Mathematics Number, Money and Measure

Patterns and Relationships

Early	Second	Third
I have spotted and explored patterns in my own and the wider environment and can copy and continue these and create my own patterns.  MTH 0-13a		
• investigate patterns on a wall - draw - take rubbings		
look at patterns:     windows and doors in buildings     glazing in windows     wall bonds     on roofs     stained glass     paving		
First		
Through exploring number patterns, I can recognise and continue simple number sequences and can explain the rule I have applied.  MTH 1-13b		
• investigate patterns in the environment around school		

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# Technologies

Early	First	Second	Third	Fourth	Senior
influencing societies contribute to building a be improve my life, the lives gain the confidence and a future, at home, at work a become an informed conmerits and impacts of probe capable of making readevelopment and ethical, broaden my understandir technology (ICT) has in broaden my awareness of engineering and the technology and the	of the role and impact of tecletter world by taking responsibilities of others and the environment whills to embrace and use technical in the wider community sumer and producer who has iducts and services soned choices relating to the economic and cultural issues in the global comform of the wideas in mathematics and logies earning, and establish firm for	ole, ethical actions to t t inclogies now and in the an appreciation of the environment, sustainable and communications including and science are used in	contribute to building a be responsible, ethical actio lives of others and the en gain the confidence and stechnologies now and in the wider commun     become an informed cons an appreciation of the merand services     be capable of making reasenvironment, sustainable economic and cultural issues broaden my understanding and communications technand in the global commun     broaden my awareness of and science are used in each cologies     experience work-related less technologies	g of the role and impact of and influencing societies atter world by taking that so improve my life, the wironment skills to embrace and use he future, at home, at work ity numer and producer who has rits and impacts of products soned choices relating to the development and ethical, use g of the role that information mology (ICT) has in Scotland ity of how ideas in mathematics engineering and the	

# Technologies

## Technological Developments in Society

Early	Second	Third
I enjoy playing with and exploring technologies to discover what they can do and how they can help us. TCH 0-01a	I can investigate how an everyday product has changed over time to gain an awareness of the link between scientific and technological developments. TCH 2-01b	From my studies of sustainable development, I can reflect on the implications and ethical issues arising from technological developments for individuals and societies. TCH 3-02a
name some common building materials     look at the roofs of different houses and discuss their purpose and the materials used for construction -	classify building materials and find out what is natural and what is man-made: lime mortar uses natural material, but cement is manufactured	• investigate the best building materials for energy conservation;
focus on energy  • build a model home using different junk materials (plasticine, wooden blocks, clay):	natural and man-made materials in housing comparisons: texture, weight, suitability: look for contrasts in the local environment - colour shape, building design, old, new, natural /	<ul> <li>investigate the energy efficiency of building materials with respect to the sunshine, winds and temperatures encountered in Scotland</li> </ul>
- how much energy did the pupils use to build with different materials? - what other aids were used i.e. glue, tape, papier mâché?	man-made materials  Having analysed how lifestyle can impact on the environment and Earth's resources, I can make suggestions about how to live in a more sustainable way.  TCH 2-02a	think about how buildings are designed and orientated in relation to:     sun     prevailing wind
Within and beyond my place of learning, I can reduce, re-use and recycle resources I use, to help care for the environment.  TCH 0-02a	discuss the differences between materials with respect to energy conservation (insulation, utilisation of sunshine, heat storage) - "embodied energy" i.e. how much energy a material takes to produce, transport and install: where and how they are used and why:	- sea  - energy is only one aspect of sustainability: discuss healthy choices of materials (e.g. not treated with toxic chemicals or likely to exude vapours with
junk models of houses :     ask pupils to think what to do with the junk they did     not need for their models	-investigate why materials have been chosen for specific functions e.g. slates for roofing; glass fibres for insulation; rubber for seals  I can investigate the use and development of renewable and	consequences for those with asthma)  • cost of manufacturing and supplying materials
how pupils' families / school deal with waste materials in the home or school	sustainable energy to gain an awareness of their growing importance in Scotland or beyond.  TCH 2-02b	<ul> <li>consider the use of the car and other forms of transport, and the implications on how we make and use places:</li> <li>look at planning in different scales;</li> </ul>
First	• fuels (differentiate between renewable and non-renewable) : - wood, charcoal, coal, peat	• village • town
Throughout all my learning, I take appropriate action to ensure conservation of materials and resources, considering the impact of my actions on the environment.  TCH 1-02a  • consider what is reused and recycled in the home  • consider a property as something that can be modified and reused	- wood, charcoal, coal, peat  - oil, oil substitutes (e.g. alcohol, vegetable oils)  - discuss different types of energy used in homes or schools e.g solar  - photo voltaic arrays - windmills/turbines - ground source heat pumps - heat recovery systems - air-conditioning systems - discuss how much energy a material takes to produce, transport and install, and how long it will last	• city

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# Numeracy and Mathematics Number, Money and Measure Measurement Early Second Third I have experimented with everyday items as units of measure to investigate and compare sizes and amounts in my environment, sharing my findings with others. • pupils begin by looking at their own home and compare with others around them • which houses are smaller/larger? • how does their home compare with the school building?

# Numeracy and Mathematics

Early	First	Second	Third	Fourth	Senior
My learning in mathematics  develop a secure underst- mathematics and apply th  engage with more abstract kinds of thinking  understand the application present, and its potential in develop essential numera establish firm foundations understand that successfieffective money managen interpret numerical inform assess risk, and make rea apply skills and understand variety of contexts	e enables me to: anding of the concepts, prince ese in different contexts, inclut mathematical concepts and n of mathematics, its impact of for the future cy skills which will allow me t for further specialist training ul independent living requires nent, using schedules and oth ation appropriately and use it asoned evaluations and inform ding creatively and logically the native and effective use of tec-	iples and processes of uding the world of work of develop important new on our society past and to participate fully in society in financial awareness, her related skills to draw conclusions, med decisions to solve problems, within a	My learning in mathematic:  develop a secure undersi mathematics and apply the engage with more abstract kinds of thinking understand the application present, and its potential develop essential numeral establish firm foundations understand that successing effective money managerel interpret numerical informassess risk, and make reapply skills and understall variety of contexts	s enables me to: landing of the concepts, princhese in different contexts, incited mathematical concepts and in of mathematics, its impact for the future acy skills which will allow me is for further specialist training ful independent living requires ment, using schedules and of the properties of the context of the con	ciples and processes of luding the world of work of develop important new on our society past and to participate fully in society is financial awareness, ther related skills to draw conclusions, med decisions to solve problems, within a

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# Technologies Information & Communications Technology to Enhance Learning First Second Third I enhance my learning by applying my ICT skills in different learning contexts across the curiculum. TCH 3-04a • using ICT in the home to access maps and mapping via the internet

# Technologies Food and Textiles Contexts for Developing Technological Skills and Knowledge

First	Second	Third
	Through discovery and imagination, I can develop and use problem solving strategies to meet design challenges with a food or textile focus.  TCH 2-11a	
	consider how interior/furniture/fabric designers work to fulfil a design brief	
	consider how kitchens are designed on both a domestic and commercial basis in relation to:     materials used     location in a building     capacity     type of catering operation	
	- type of eacting operation	

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Second  fred by a range of stimuli, I can express and municate my ideas, thoughts and feelings to a 2-13a pils devise a production on the work of a struction company through the ages roduce ideas of forces through the body as these relate to forces in buildings	nrough
astruction company through the ages roduce ideas of forces through the body a	nd
	1.
The This	
arch cantilever	

# Expressive Arts Art and Design

Early	Second	Third
I can create a range of visual information through observing and recording from my experiences across the curriculum.  EXA 0-04a	Through observing and recording from my experiences across the curriculum, I can create images and objects which show my awareness and recognition of detail.  EXA 2-04a	make a colour study of the room you like best in your house     why do you like it?  EXA 3-03a
take tools used for building into the classroom for pencil drawings	figure drawing lesson of someone working with wood or stone     dress pupil as a joiner sawing or planing a piece of wood, or a mason using a hammer and chisel	Through observing and recording, I can create material that shows accuracy of representation.  EXA 3-04a  • look for and draw a new building in your area
First	colour studies of chalk, Cray-Pas crayong or paint of various types of brick/stone samples taken into school	which you think does not fit in well with its surroundings - draw the buildings/areas on either side of your
I have the opportunity to choose and explore a range of media and technologies to create images and objects, discovering their effects and suitability for specific tasks.  EXA 1-02a		chosen subject  • pupils make large 3D junk models of their own house, school or local building of interest  • make a doll's house
experiment with Cray-Pas crayons on coloured sugar paper to draw tools used in the building industry		6 groups each working with a crisp box creating different rooms to be combined into a home     very carefully measure a door and draw it to scale
I can create and present work using the visual elements of line, shape, form, colour, tone, pattern and texture.  EXA 1-03a		of 1:10
look at homes in the local environment and record through pencil sketches and digital photography		
make pencil drawings of model vans, lorries, cranes, diggers taken into the classroom, or real items where time and weather permits  EXA 1-04a		
make small sketches of different naturally- occurring patterns to be found in or around home or school e.g. stone, brickwork, patterns created by railings or fences		

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Technologies
Craft, Design, Engineering and Graphics Contexts for Developing Technological Skills and
Knowledge

First	Second	Third
	Throughout my learning, I experiment with the use of colour to develop an awareness of the effects and impacts it can have.  TCH 2-15b  • provide pupils with the opportunity to observe at home, in school, and in the local built environment  • consider:  • the psychological/emotional effect of colour  • the science behind colour  • why colours are chosen for certain uses (e.g. red for warmth/danger; blue for cold/calm)  • rooms in a house or building have different uses  • how would you decorate them?	I gain inspiration from natural forms, the built environment or imagination to develop a creative idea which could be realised using computer aided manufacture.  TCH 3-15b  • design a finial for display on a particular building  - begin by looking for these in the local environment and investigate the inspiration behind the design (many finials reflect natural shapes and forms)

# Social Studies

Early	First	Second	Third	Fourth	Senior
appreciation of my local a broaden my understanding achievements in the past develop my understanding others  develop my understanding experience of critical and explore and evaluate diffelearn how to locate, exploielearn how to locate, exploielearn how to locate, exploiengage in activities which develop an understanding business	g of the history, heritage and on the history, heritage within the gof the world by learning about and present gof my own values, beliefs arough the principles of democrations.	e world out human activities and out cultures and those of cy and citizenship through dence devents in time and place is locally and further afield des terprise and influence	local and national heritag • broaden my understandir about human activities ar and present • develop my understandir, and cultures and those o • develop my understandir, democracy and citizensh critical and independent i • explore and evaluate diffi- evidence • learn how to locate, explo- and events in time and present to the series of the series of the series of the series which attitudes • develop an understanding enterprise and influence	and an appreciation of my lee within the world no of the world by learning and achievements in the past and achievements in the past and achievements in the past and of the world by learning and achievements in the past and of the world by learning and for the world by learning and link periods, people lace and link features and a field an encourage enterprising and for the world by learning a	

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# Social Studies People in Society, Economy and Business

First	Second	Third
have developed an understanding of the importance f local organisations in providing for the needs of my cal community.		
visit significant buildings in the local area and describe their main features: post office - bank - Town Hall describe: my home - my neighbour's home my street - play areas local services such as rubbish collections and deliveries		

# Social Studies

# People in Society, Economy and Business Society and Economy

Early	Second	Third
l am aware that different types of evidence can help me to find out about the world around me.  SOC 0-15a  • visit significant buildings in the local area and describe their main features: - post office - bank - Town Hall - police station - clinics  • describe: - my home - my neighbour's home - my street - play areas - local services such as rubbish collections and deliveries	I can use evidence selectively to research current social, political or economic issues.   SOC 2-15a     • look at the possible effects of power generation on the landscape :   • e.g. coal / oil / nuclear / hydro / wind / solar power     • investigate methods of energy conservation   can explain how the needs of a group in my local community are supported.   SOC 2-16a     • discuss the local area and how land is used for different purposes e.g.     - play areas   - public parks     - school   - work	I can use my knowledge of current social, political or economic issues to interpret evidence and present an informed view.     SOC 3-15a     • discuss the main social and environmental impact of a new football stadium development beside a housing suburb     • look at the impact of new housing estates on:     • the environment
First	I can describe the main features of a democracy and discuss the rights and responsibilities of citizens in Scotland.  SOC 2-17a  By comparing the lifestyle and culture of citizens in another country with those of Scotland, I can discuss the similarities and differences.  SOC 2-19a  • investigate the provision of housing in a European and African nation	Fourth  I can evaluate conflicting sources of evidence to sustain a line of argument.  SOC 4-15a  • discuss the appropriateness of any new development (new flats, football stadium) and whether it enhances or detracts from what is already in the neighbourhood  I can evaluate the role of the media in a democracy, assess its importance in informing and influencing citizens, and explain decisions made by those in power.  SOC 4-17b
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Social Studies People, Past Events and Societies			
First	Second	Third	
l am aware that different types of evidence can help me to find out about the past.  SOC 0-01a  • create a timeline of their grandparents, parents and their own homes;  - look at the different rooms, furniture, food, lifestyles, clothes, inventions  I can make a personal link to the past by exploring items or images connected with important individuals or special events in my life.  SOC 0-02a  • invite grandparents to relate tales of their childhood  • think about how home interiors change for different occasions e.g. birthdays, Christmas  I have explored how people lived in the past and have used imaginative play to show how their lives were different from my own and the people around me.  SOC 0-04a	Iunderstand that evidence varies in the extent to which it can be trusted and can use this in learning about the past. SOC 1-01a	Can use primary and secondary sources selectively to research events in the past.   SOC 2-01a	

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## Social Studies

## People, Past Events and Societies

First	Second	Third
		I can use my knowledge of a historical period to interpret the evidence and present an informed view. SOC 3-01a
		<ul> <li>investigate the development of housing utilities :</li> <li>energy for power and lighting</li> <li>sanitation</li> </ul>
		<ul> <li>investigate changing types of windows throughout history</li> </ul>
		I can make links between my current and previous studies, and show my understanding of how people and events have contributed to the development of the Scottish nation  SOC 3-02a

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# Social Studies

Early	Second	Third
explore and discover the interesting features of my local environment to develop an awareness of the world around me. SOC 0-703  • visit significant buildings in the local area and describe their main features: - post office - bank - Town Hall  • describe - my home - my neighbour's home - my street - play areas - local services such as rubbish collections and deliveries   explore and appreciate the wonder of nature within different environments and have played a part in caring for the environment.  SOC 0-08  • look at basic household resources and explore how to conserve the resources: - water - paper - metal - plastics - plastics - where paper - metal - plastics - garden - electricity  While learning outdoors in differing weathers, I have described and recorded the weather, its effects and how it makes me feel and can relate my recordings to the seasons.  SOC 0-122  • construct a weather chart and study the effects it has on our homes with regard to: - heating - need for windows - garden - curtains - lights - roof / walls etc construct a profile of the local area showing houses and local landmarks: - are there hills, flat areas, houses?	I can describe the major characteristic features of Scotland's landscape and explain how these were formed SOC 2-07a  • study the immediate environment around the school by making a map of the journey to school and draw a 'mental map' of the area; pupils share their maps with others  • compare the environment around the school with that of a contrasting area: city centre / rural; urban / suburban; coastal / inland  • pupils make a study of their own home or a home of their choice and its surroundings  I can consider the advantages and disadvantages of a proposed land use development and discuss the impact this may have on the community  SOC 2-08b  • investigate the changes to the local environment brought about by a new shopping area or industrial site  By comparing my local area with a contrasting area outwith Britain, I can investigate the main features of weather and climate, discussing the impact on living things.	I can identify the possible consequences of an environmental issue and make informed suggestions about ways to manage the impact.  SOC 3-08a  • consider how we can make our homes more environmentally friendly in relation to:  - the materials we choose to build them from  - how waste is disposed  - energy efficiency  - water management  - orientation and design  • investigate how pupils get from home to school  - consider the most environmentally-friendly method
First	compare homes in Scotland with homes around the world : look     at ways in which the design of houses has been adapted to deal	Fourth
I can describe and recreate the characteristics of my local environment by exploring the features of the landscape.  SOC 1-07a  • contrast a weather chart and study the effects it has on our homes with regard to: - heating - need for windows - garden - curtains	with weather and climate  • develop knowledge about the physical features of Scotland and how they affect the design of our homes  • examine the effects of bad weather on pupils homes: flooding,	I can develop my understanding of the interaction between humans and the environment by describing and assessing the impact of human activity on an area.
- lights — roof / walls etc construct a profile of the local area showing houses and local landmarks: are there hills, flat areas, houses?  By using a range of instruments, I can measure and record the weather and can discuss how weather affects my life.  SOC 1-12a - look at the effects of weather on:	falling trees, damage through high winds  contact building firms abroad and enquire about the relation- ship between building materials and climate  study the formation process which led to physical features and how they are affected by running water / ice / earthquakes: investigate the effects of these on house building	• investigate the movement of population from town centres to the suburbs during the 1960s and 1970s, and the encouragement back to the city centres during the 1990s
- building materials - activities in and around the home - add details to the local area profile :	I can explain how the physical environment influences the ways in which people use land by comparing my local area with a contrasting area.	• people have been moving into cities and returing to live in areas outwith the centre of town since the 19th century

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