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| **Date: / /**   | **Homes** |
| Subject | **Geography** | **Science** |
| Lesson | Where We Live: Buildings and Communities | Materials |
| Strand | Human Environments | Materials |
| Strand unit(s) | People living and working in the local area; People living and working in a contrasting part of Ireland; People and other lands | Properties and characteristics of materials |
| Curriculum objectives | * Learn about and come to appreciate the people and communities who live and work in the locality and in a contrasting part of Ireland: people who live and work in these areas; how people in these areas depend on each other; role of community groups and organisations.
* Explore, investigate and come to appreciate the major features of the built environment in the locality and in a contrasting part of Ireland: shape or layout of features in the area in dispersed and/or collective settlements; different types of homes in the area, including houses, cottages, flats, caravans, trailers, mobile homes; causes and effects of homelessness; location and uses of buildings.
* Study some aspects of the environments and lives of people

in one location in Europe and one location in another part of the world: location of these areas; population growth or decline; homes and settlements; shanty towns, similarities and differences between these places and Ireland. | * Recognise that materials can be in solid, liquid or gas form.
* Identify and investigate a widening range of common materials in the immediate environment: water, air, rock, fabric, paper, metal, wood, plastic, food.
* Explore the origins of these materials: identify natural and manufactured materials.
* Group materials according to their properties and/or composition: properties (e.g. flexibility, transparency, magnetism, conductivity, insulation, strength, shape, perishable or non-perishable foods, solubility).
* Identify how materials are used: relate the properties of the material to its use.
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| Differentiate by | Challenge ❑ Task ❑ Pace ❑ Outcome ❑ Resource ❑ Grouping ❑ Assessment ❑ | Challenge ❑ Task ❑ Pace ❑ Outcome ❑Resource ❑ Grouping ❑ Assessment ❑ |
| Resources / Equipment | * Thematic poster
* PowerPoint about types of homes
* DT 1– Group Work Cards
 | * Video about the three states of matter
* PowerPoint about the building materials used in Ireland
* PCM 1– Let's Investigate Materials
* DT 1– Group Work Cards
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Fortnightly Overviews

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| **Date: / /**   | **Homes** |
| Subject | **History** | **Science** |
| Lesson | Homes in the Past | Heat at Home |
| Strand | Continuity and change over time; Local studies | Energy and forces; Materials |
| Strand unit(s) | Homes, housing and urban developments; Homes | Heat; Materials and change |
| Curriculum objectives | * Study aspects of social, artistic, technological and scientific developments over long periods.
* Identify examples of change and continuity in the ‘line of development’.
* Identify the factors which may have caused or prevented change.
* Refer to or use appropriate timelines.
* Compare and classify a range of homes in the area (ideally homes from a variety of periods).
* Investigate local and/or regional variations or similarities in building styles and materials.
* Investigate links between the age of houses and their location.
 | * Experiment with a range of materials to establish that heat may be transferred in different ways: through water, metals or air.
* Recognise a variety of sources of heat: renewable sources; non-renewable sources.
* Know that heat energy can be transferred: in solids (conduction); in water and air (convection); from the sun (radiation).
* Measure and record temperature using a thermometer.
* Experiment to establish which materials are good conductors of heat or good insulators: explore ways in which liquids and solids may be kept hot or cold.
* Identify ways in which homes and buildings are heated and insulated.
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| Differentiate by | Challenge ❑ Task ❑ Pace ❑ Outcome ❑ Resource ❑ Grouping ❑ Assessment ❑ | Challenge ❑ Task ❑ Pace ❑ Outcome ❑Resource ❑ Grouping ❑ Assessment ❑ |
| Resources / Equipment | * PowerPoint about primary and secondary sources of information
* Video about homes in Ireland in the past
* Digital complete-the-sentence activity
* DT 1– Group Work Cards
 | * Video about how heat is transferred (conduction, convection and radiation)
* Thematic revision quiz
* PCM 2– Science Investigation Template
* PCM 3– Which Material Keeps Water Hot for Longest?
* DT 1– Group Work Cards
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