

SCIENCE CURRICULUM NORTH IRELAND

GRADE FND - KS3



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Module Name	Grade	Standard	Description
Energy from the Sun	FND	FND.ME.1(g)	What sources of energy are in my world?
		FND.ME.1(h)	How and why are they used?
Pushes and Pulls	FND	FND.ME.1(a)	How do things move now and in the past?
		FND.ME.1(b)	Why do things move?
		FND.ME.1(c)	How do things work?
		FND.ME.1(e)	Where do things move?
		FND.CT.1(c)	How can we make change happen?
Plant Survival Animal Survival	FND	FND.ID.1(e)	How do living things survive?
	FND	FND.ID.1(e)	How do living things survive?
		FND.ME.1(d)	Why do people and animals move?
		FND.ME.1(f)	Where do people and animals move to?
Animal Trait Inheritance and Variation	FND	FND.ID.1(b)	What am I?
		FND.ID.1(c)	Am I the same as everyone else?
		FND.CT.1(a)	How do things change?
		FND.CT.1(b)	What kind of changes happen, have happened or might happen?
Animal Needs	FND	FND.ID.1(d)	What else is living?
		FND.ID.1(e)	How do living things survive?
		FND.ME.1(d)	Why do people and animals move?
		FND.ME.1(f)	Where do people and animals move to?
Living and Nonliving Things	FND	FND.ID.1(a)	Who am I?
		FND.ID.1(b)	What am I?
		FND.ID.1(c)	Am I the same as everyone else?
		FND.ID.1(d)	What else is living?
Speed and Direction	FND	FND.ME.1(a)	How do things move now and in the past?
		FND.ME.1(b)	Why do things move?
		FND.ME.1(c)	How do things work?
		FND.ME.1(e)	Where do things move?
		FND.CT.1(c)	How can we make change happen?

Module Name	Grade	Standard	Description
Seasonal Patterns	KS1	KS1.PL.1(c)	features of the immediate world and comparisons between places;
		KS1.PL.1(d)	change over time in local places;
		KS1.CT.1(a)	ways in which change occurs in the natural world;
		KS1.CT.1(b)	how people and places have changed over time;
Parts of Plants	KS1	KS1.ID.1(b)	how plants and animals rely on each other within the natural world;
		KS1.ID.1(e)	interdependence of people, plants, animals and place.
		KS1.PL.1(a)	how place influences plant and animal life;
		KS1.PL.1(b)	ways in which living things depend on and adapt to their environment;
Animal and Plant Dependence	KS1	KS1.ID.1(a)	'me' in the world;
		KS1.ID.1(b)	how plants and animals rely on each other within the natural world;
		KS1.ID.1(c)	interdependence of people and the environment;
		KS1.ID.1(e)	interdependence of people, plants, animals and place.
Basic Needs and Habitats	KS1	KS1.ID.1(a)	'me' in the world;
		KS1.ID.1(b)	how plants and animals rely on each other within the natural world;
		KS1.ID.1(e)	interdependence of people, plants, animals and place.
Objects in the Sky	KS1	KS1.PL.1(d)	change over time in local places;
		KS1.ME.1(a)	sources of energy in the world;
		KS1.ME.1(c)	changes in movement and energy over time.
Survival of the Fittest	KS1	KS1.PL.1(a)	how place influences plant and animal life;
		KS1.PL.1(b)	ways in which living things depend on and adapt to their environment;
		KS1.CT.1(a)	ways in which change occurs in the natural world;
		KS1.ME.1(b)	how and why people and animals move;
Reducing Human Impact	KS1	KS1.ID.1(a)	'me' in the world;
		KS1.ID.1(d)	the effect of people on the natural environment over time;

		KS1.PL.1(d)	change over time in local places;
		KS1.PL.1(e)	positive and negative effects of people on places.
		KS1.CT.1(b)	how people and places have changed over time;
		KS1.CT.1(c)	positive change and how we have a responsibility to make an active contribution.
Plant Trait Inheritance and Variation	KS1	KS1.PL.1(a)	how place influences plant and animal life;
		KS1.PL.1(b)	ways in which living things depend on and adapt to their environment;
Effects of Wind and Water	KS1	KS1.PL.1(c)	features of the immediate world and comparisons between places;
		KS1.PL.1(d)	change over time in local places;
		KS1.CT.1(a)	ways in which change occurs in the natural world;
		KS1.CT.1(b)	how people and places have changed over time;
Objects and Motion	KS1	KS1.ME.1(a)	sources of energy in the world;
		KS1.ME.1(c)	changes in movement and energy over time.
Environmental Traits	KS1	KS1.PL.1(a)	how place influences plant and animal life;
		KS1.PL.1(b)	ways in which living things depend on and adapt to their environment;
		KS1.CT.1(a)	ways in which change occurs in the natural world;
Adaptations	KS1	KS1.PL.1(a)	how place influences plant and animal life;
		KS1.PL.1(b)	ways in which living things depend on and adapt to their environment;
		KS1.CT.1(a)	ways in which change occurs in the natural world;
		KS1.ME.1(b)	how and why people and animals move;
Behaviour of Light	KS1	KS1.ME.1(a)	sources of energy in the world;
Sound	KS1	KS1.ME.1(a)	sources of energy in the world;
Environmental Changes and Effects	KS1	KS1.ID.1(a)	'me' in the world;
		KS1.ID.1(c)	interdependence of people and the environment;
		KS1.ID.1(d)	the effect of people on the natural environment over time;
		KS1.ID.1(e)	interdependence of people, plants, animals and place.
Patterns in Space	KS1	KS1.ME.1(a)	sources of energy in the world;
		KS1.ME.1(c)	changes in movement and energy over time.
		KS1.CT.1(a)	ways in which change occurs in the natural world;

What Plants Need	KS1	KS1.ID.1(b)	how plants and animals rely on each other within the natural world;
		KS1.ID.1(e)	interdependence of people, plants, animals and place.
		KS1.PL.1(a)	how place influences plant and animal life;
		KS1.PL.1(b)	ways in which living things depend on and adapt to their environment;

Module Name	Grade	Standard	Description
Energy and Collision	KS2	KS2.ME.1(a)	the causes and effect of energy, forces and movement;
Natural Processes	KS2	KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
		KS2.ID.1(c)	interdependence of people and the environment and how this has been accelerated over time by advances in transport and communications;
		KS2.ID.1(d)	the effect of people on the natural and built environment over time.
		KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
		KS2.PL.1(e)	change over time in places;
		KS2.PL.1(f)	positive and negative effects of natural and human events upon a place over time.
		KS2.ME.1(b)	causes that affect the movement of people and animals;
		KS2.ME.1(c)	how movement can be accelerated by human and natural events such as wars, earthquakes, famine or floods;
		KS2.CT.1(c)	The effects of positive and negative changes globally and how we contribute to some of these changes.
Inheritance and Variation of Traits	KS2	KS2.PL.1(a)	how place influences the nature of life;
		KS2.PL.1(b)	ways in which people, plants and animals depend on the features and materials in places and how they adapt to their environment;
Classifying Animals	KS2	KS2.PL.1(a)	how place influences the nature of life;
		KS2.PL.1(b)	ways in which people, plants and animals depend on the features and materials in places and how they adapt to their environment;
Plant Life Cycles	KS2	KS2.ID.1(a)	how they and others interact in the world;
		KS2.ID.1(b)	how living things rely on each other within the natural world;
		KS2.PL.1(a)	how place influences the nature of life;
		KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;

Fossils	KS2	KS2.PL.1(a)	how place influences the nature of life;
		KS2.PL.1(b)	ways in which people, plants and animals depend on the features and materials in places and how they adapt to their environment;
		KS2.CT.1(a)	how change is a feature of the human and natural world and may have consequences for our lives and the world around us;
		KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;
Energy and Speed	KS2	KS2.ME.1(a)	the causes and effect of energy, forces and movement;
Electricity, Conductors, and Insulators	KS2	KS2.ME.1(a)	the causes and effect of energy, forces and movement;
Friction	KS2	KS2.ME.1(a)	the causes and effect of energy, forces and movement;
Quick Changes to Land	KS2	KS2.ID.1(c)	interdependence of people and the environment and how this has been accelerated over time by advances in transport and communications;
		KS2.ID.1(d)	the effect of people on the natural and built environment over time.
		KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
		KS2.PL.1(e)	change over time in places;
		KS2.ME.1(b)	causes that affect the movement of people and animals;
		KS2.ME.1(c)	how movement can be accelerated by human and natural events such as wars, earthquakes, famine or floods;
		KS2.ME.1(d)	positive and negative consequences of movement and its impact on people, places and interdependence.
		KS2.CT.1(a)	how change is a feature of the human and natural world and may have consequences for our lives and the world around us;
		KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;
		KS2.CT.1(c)	The effects of positive and negative changes globally and how we contribute to some of these changes.

Slow Changes to Land	KS2	KS2.PL.1(e)	change over time in places;
		KS2.ID.1(c)	interdependence of people and the environment and how this has been accelerated over time by advances in transport and communications;
		KS2.ID.1(d)	the effect of people on the natural and built environment over time.
		KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
		KS2.PL.1(e)	change over time in places;
		KS2.ME.1(b)	causes that affect the movement of people and animals;
		KS2.ME.1(c)	how movement can be accelerated by human and natural events such as wars, earthquakes, famine or floods;
		KS2.ME.1(d)	positive and negative consequences of movement and its impact on people, places and interdependence.
		KS2.CT.1(a)	how change is a feature of the human and natural world and may have consequences for our lives and the world around us;
		KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;
Life Cycles	KS2	KS2.CT.1(c)	The effects of positive and negative changes globally and how we contribute to some of these changes.
		KS2.PL.1(b)	ways in which people, plants and animals depend on the features and materials in places and how they adapt to their environment;
		KS2.ID.1(a)	how they and others interact in the world;
		KS2.ID.1(b)	how living things rely on each other within the natural world;
		KS2.PL.1(a)	how place influences the nature of life;
Plant and Animal Extinction	KS2	KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;
		KS2.PL.1(a)	how place influences the nature of life;
		KS2.PL.1(b)	ways in which people, plants and animals depend on the features and materials in places and how they adapt to their environment;

		KS2.CT.1(a)	how change is a feature of the human and natural world and may have consequences for our lives and the world around us;
		KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;
Weather and Climate	KS2	KS2.PL.1(a)	how place influences the nature of life;
		KS2.PL.1(a)	how place influences the nature of life;
		KS2.PL.1(b)	ways in which people, plants and animals depend on the features and materials in places and how they adapt to their environment;
		KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
Processes and Impacts of Natural Hazards	KS2	KS2.PL.1(d)	our place in the universe;
		KS2.ID.1(c)	interdependence of people and the environment and how this has been accelerated over time by advances in transport and communications;
		KS2.ID.1(d)	the effect of people on the natural and built environment over time.
		KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
		KS2.PL.1(e)	change over time in places;
		KS2.PL.1(f)	positive and negative effects of natural and human events upon a place over time.
		KS2.ME.1(b)	causes that affect the movement of people and animals;
		KS2.ME.1(c)	how movement can be accelerated by human and natural events such as wars, earthquakes, famine or floods;
		KS2.CT.1(a)	how change is a feature of the human and natural world and may have consequences for our lives and the world around us;
		KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;
		KS2.CT.1(c)	The effects of positive and negative changes globally and how we contribute to some of these changes.

Changing Land	KS2	KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
		KS2.PL.1(e)	change over time in places;
		KS2.ME.1(c)	how movement can be accelerated by human and natural events such as wars, earthquakes, famine or floods;
		KS2.CT.1(a)	how change is a feature of the human and natural world and may have consequences for our lives and the world around us;
		KS2.CT.1(b)	ways in which change occurs over both short and long periods of time in the physical and natural world;
Plate Tectonics	KS2	KS2.PL.1(c)	features of, and variations in places, including physical, human, climatic, vegetation and animal life;
		KS2.PL.1(e)	change over time in places;
		KS2.ME.1(b)	causes that affect the movement of people and animals;
		KS2.ME.1(c)	how movement can be accelerated by human and natural events such as wars, earthquakes, famine or floods;
		KS2.ME.1(d)	positive and negative consequences of movement and its impact on people, places and interdependence.
		KS2.CT.1(c)	The effects of positive and negative changes globally and how we contribute to some of these changes.

Module Name	Grade	Standard	Description
Electric Circuits	KS3	KS3.CM.6	Using electricity
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(g)	develop a range of practical skills, including the safe use of science equipment;
Elements and Compounds	KS3	KS3.CM.3	Elements, compounds and mixtures
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(c)	obtaining evidence,
Light Reflection	KS3	KS3.CM.7	Sound and light
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(g)	develop a range of practical skills, including the safe use of science equipment;
Magnets	KS3	KS3.CM.4	Forces and energy
		KS3.P.1(c)	obtaining evidence,
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Matter Changing States	KS3	KS3.CM.1	Atoms and chemical changes
		KS3.CM.2	Structures, properties, uses of materials
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(c)	obtaining evidence,
The Solar System	KS3	KS3.EU.2	The solar system and universe.
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Properties of Visible Light	KS3	KS3.CM.7	Sound and light
		KS3.P.1(c)	obtaining evidence,
		KS3.P.1(d)	presenting and interpreting results;
Human Body and Health	KS3	KS3.OH.3	Healthy body and mind
		KS3.P.1(g)	develop a range of practical skills, including the safe use of science equipment;
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems

Changes in Energy on the Molecular Level	KS3	KS3.CM.1	Atoms and chemical changes
		KS3.CM.2	Structures, properties, uses of materials
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(c)	obtaining evidence,
		KS3.P.1(d)	presenting and interpreting results;
Light and Sound Waves	KS3	KS3.CM.7	Sound and light
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(d)	presenting and interpreting results;
Anatomy of a Cell	KS3	KS3.OH.2	Cells, genes and reproduction
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Particle Movement	KS3	KS3.CM.1	Atoms and chemical changes
		KS3.CM.2	Structures, properties, uses of materials
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Mitosis	KS3	KS3.OH.2	Cells, genes and reproduction
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Ecosystems	KS3	KS3.EU.1	The environment and human influences
		KS3.OH.1	Interdependence of plants and animals
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Earth's Biomes	KS3	KS3.OH.1	Interdependence of plants and animals
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(f)	research scientific information from a range of sources;
Earth's Systems Interactions	KS3	KS3.EU.1	The environment and human influences
		KS3.OH.1	Interdependence of plants and animals
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(d)	presenting and interpreting results;

Human Footprint	KS3	KS3.EU.1	The environment and human influences
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(c)	obtaining evidence,
		KS3.P.1(d)	presenting and interpreting results;
Reducing Human Footprint	KS3	KS3.EU.1	The environment and human influences
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
		KS3.P.1(g)	develop a range of practical skills, including the safe use of science equipment;
Structure of Matter and Heat	KS3	KS3.CM.1	Atoms and chemical changes
		KS3.CM.2	Structures, properties, uses of materials
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Energy Transfer	KS3	KS3.CM.5	Forces and energy transfer
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(c)	obtaining evidence,
		KS3.P.1(d)	presenting and interpreting results;
Changes in Motion, Force, and Direction	KS3	KS3.CM.4	Forces and energy
		KS3.CM.5	Forces and energy transfer
		KS3.P.1(d)	presenting and interpreting results;
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Gravity	KS3	KS3.EU.2	The solar system and universe.
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(c)	obtaining evidence,
What Are Cells?	KS3	KS3.OH.2	Cells, genes and reproduction
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(c)	obtaining evidence,
		KS3.P.1(f)	research scientific information from a range of sources;
The Universe	KS3	KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
		KS3.P.1(f)	research scientific information from a range of sources;

Formation of the Solar System	KS3	KS3.EU.2	The solar system and universe.
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
Human Dependence on Natural Resources	KS3	KS3.OH.1	Interdependence of plants and animals
		KS3.EU.1	The environment and human influences
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(f)	research scientific information from a range of sources;
Human Activities and Global Climate Change	KS3	KS3.EU.1	The environment and human influences
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(e)	develop creative and critical thinking in their approach to solving scientific problems
		KS3.P.1(f)	research scientific information from a range of sources;
Mixtures	KS3	KS3.CM.3	Elements, compounds and mixtures
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(c)	obtaining evidence,
Earth's Rotation	KS3	KS3.EU.2	The solar system and universe.
		KS3.P.1(a)	further scientific knowledge and understanding:
Bodies and Systems	KS3	KS3.OH.3	Healthy body and mind
		KS3.P.1(b)	planning for investigations,
		KS3.P.1(c)	obtaining evidence,
		KS3.P.1(d)	presenting and interpreting results;
The Dynamic Nature of Ecosystems	KS3	KS3.OH.1	Interdependence of plants and animals
		KS3.EU.1	The environment and human influences
		KS3.P.1(a)	further scientific knowledge and understanding:
		KS3.P.1(f)	research scientific information from a range of sources;
Forms and Uses of Energy	KS3	KS3.CM.4	Forces and energy
		KS3.CM.5	Forces and energy transfer
		KS3.P.1(a)	further scientific knowledge and understanding:

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