



Science from 'The King's Senior School', Witney, Oxon.

For Key Stage Level 3 using Relevant Concepts from 21 Major Kingdom of God Concepts.

Foundational concepts on Creation are based on: -

Concept 1 – Man created in God's image and redeemed by Him (Genesis 1:27-28; 1 Peter: 18-19)

God has given dignity and value to men and women by making them in His own image and by redeeming them through the cross at the cost of His Son's life.

Concept 2 – Creator and Creation (Genesis 1: 1; John1: 1: Romans 1:20; Colossians 1:16)

God is the creator of the universe and His creation reflects His nature.

Concept 5 – Order (Genesis 1; Isaiah 9:7a; 1Corinthians 14:33)

God establishes a creation which is purposeful and reveals order; He proceeds in orderly ways to achieve His purpose though at times He intervenes miraculously to bring about purposes.

Human Biology module using: -

Concept 1 – Man created in God's image and redeemed by Him (as above)

Chemistry module using: -

Concept 4 – Unity and Diversity (1Corinthians 12 esp. V 12, 27; Romans 12: 3-8; Ephesians 4: 4-13)

There is a unity and diversity throughout God's creation; as people we are called to unity but can appreciate and learn from each other's differences.

Concept 11 – Stewardship and Servanthood (Genesis 1:26; Luke 19:11-27; John 13:2 17; 1Corinthians 4:1-2; Philippians 2)

God had made us in His own image to serve Him and one another by stewarding and developing the earth and its resources for His glory and for the good of our fellow man, just as Christ Himself did.

Concept 14 -Provision and Resources (Genesis 22:14; Psalm 104; 1Timothy 6:17)

One of God's names is Jehovah-Jireh: God provides resources for all that he has made and for all that He purposes to do.

Concept 6 -Wisdom (Proverbs 2:1-4; 4:7-8; Colossians 2:2-3; 1Corinthians:24, 30)

Scripture encourages us to value and pursue wisdom which is only found in God: God's wisdom is reflected in all that He is and does.

Man and Ecology using: -

Concept 1 – Man created in God's image and redeemed by Him (as above)

Concept 2 – Creator and Creation (as above)

Key Stage 3 Science

Summary of Underlying Concepts

Creation

1. The Triune God revealed in the Bible is the Creator of the Universe.
2. The universe is finite in time and had a beginning.
3. The creation is purposeful and shows design.
4. God is intimately involved with His creation and not separate from it.
5. Creation testifies to God's existence and reveals something of His character.
6. Mankind is unique and special in the created order.
7. The fall has affected the creation.

Human Biology: Our physical bodies are important to God.

1. 'Fearfully and wonderfully made' (**Psalm139:14**)

We are the product of a brilliant piece of design by a loving father (but we do bear the Marks of the fall: decay, sickness, death.)

2. 'Jesus was... found in appearance of as a man' (**Philippians 2:8**)

The Son of God inhabited a body just like ours.

3. 'May your.... body be kept blameless... He will do it.' (**1Thessalonians 5: 23,24**)

God is committed to sanctify us (sort out the effects of sin) as *whole* people.

4. 'Your body is a temple of the Holy Spirit.....honour God with your body' (**1Corinthians 6:19,20**)

What we do with our bodies is important to God.

5. 'Do not offer the parts of your body to sin' (**Romans 6:12,13**)

Our bodies can be misused by the choices we make.

Chemistry: Stewardship of the material world

God's creation of a material world shows:

1. A diversity of different materials, with special properties (design & purpose).
2. His loving provision to man of rich material resources to steward and develop.
 - Man is responsible and accountable for the earth's resources.
 - Sin has affected man's relationship with the creation and his ability to steward it wisely.
 - Godly wisdom and an understanding of His creation and His work of redemption in Christ can reverse some of the effects of the fall.

Concept 11 – Stewardship and Servanthood (as above)

Concept 5 - Order (as above)

Concept 19-Governing and Ruling (Genesis 1:28; Matthew 28:18-20; Romans 13:1-5; Ephesians 6:1-2; Hebrews 13:17)

Man is made in God's image to govern and rule His creation for Him using godly principles; God's rule through others is to be honoured.

Key Stage 3 Biology-Outline of Teaching Schedule

Year	Autumn	Spring	Summer
7	Introduction to Science What is Science? Observation and measurement Variables	Microbes	Reproduction & Life-Cycles Animal life-cycles Human Reproduction
	What are living things? Cells, Tissues and Organs	Cells, Tissues and Organs cont. Green Plants	Green plants Plant reproduction
8		Diversity of Life Classifying living things Variation Inheritance	Ecology Feeding relationships Adaptation & competition
9	Human Body Systems Nutrition Circulation Breathing and Respiration	Movement Health and Disease	Man and the Environment Project

Man and Ecology Project

The aim of this project is to research and produce an account of a case history of how human activity has had an effect on the environment. You can choose to study the impact of human activity on a whole **ecosystem**, a particular **habitat**, a **group of similar species** of organism, or a **single species**.

Remember- human activity has an impact on the environment in four basic ways:

Habitat alteration

Complete destruction-e.g. clear felling of tropical forest.

Modification-e.g. for agricultural use.

Species removal

Harvesting-regular removal of species of economic importance (e.g. fisheries)

Controlling pest species

Hunting-e.g. Tigers in Asia.

Extinction-e.g. Passenger Pigeon, Dodo.

Pollution-the release of toxic substances into the environment e.g. Oil spillage, greenhouses gases, pesticides.

Species introduction-the release of alien species into new locations:

e.g. – North American Mink escaping in the UK

- Grey Squirrels in the UK

- Cane Toad in Australia.

Try to structure your work along the following lines:

(You do not have to use these headings)

Creation

Who does the earth belong to? (**Look at Genesis 1, Psalm 24:1; Psalm 115:16**)

Describe your ecological example as unaffected by man.

What function or role might it have?

How does it reflect the character/nature of the Creator?

Fall

How has the result of human sin affected your example?

How are its relationships affected (particularly in man)?

What are the long-term consequences of human activity?

Redemption

What measures could be taken to remedy the situation?

What has or is being done? How successful has this been?

What limits its effectiveness?

How might the situation change in the future?