7A Cells

This interactive presentation is designed to teach:

- that cells are the basic units of life;
- the structure and differences of typical animal and plant cells;
- the different functions of cells;
- the organization of cells into tissues;
- how cells divide and why.

7A Cells contains **40 slides** which includes **13 Flash** activities:

- animation to illustrate the seven life processes;
- comparing a cell to a factory;
- activity relating the parts of a factory to the structure and function of the parts of a cell;
- labelled diagram revealing the parts of a typical animal cell;
- labelled diagram revealing the parts of a typical plant cell;
- highlighting the detailed structure of typical animal and plant cells;
- comparing the structures of typical animal and plant cells;
- recognizing different types of cells and reveal how they are adapted;
- matching organs to the body system that they belong to;
- animation to show the process of cell division;
- anagrams based on key words in the unit;
- complete the sentences about cells;
- multiple-choice review of the unit.

7B Reproduction

This interactive presentation is designed to teach:

- about human reproduction;
- the different parts of the male and female reproductive systems;
- the processes of ovulation, fertilization and implantation;
- the structure and development of the placenta;
- the development of the embryo through to birth;
- the way the body changes during adolescence.

7B Reproduction contains **31 slides** which includes **16 Flash** activities:

- labelled diagram of the parts of the male reproductive system and their functions;
- labelled diagram of the parts of the female reproductive system and their functions;
- identifying different parts of the human reproductive systems as male or female;
- identifying the functions of different parts of the human reproductive systems;
- identifying adaptations of sperm and egg cells;
- animation showing ovulation, fertilization and implantation;
- matching the different processes involved in reproduction to their definitions;
- animation showing the function of the placenta;
- animation showing the development of the embryo during pregnancy;
- arranging the stages of embryo development in the correct order;
- animation detailing the birth process;
- identifying the changes experienced during puberty in girls;
- identifying the changes experienced during puberty in boys;
- animation highlighting the stages of the menstrual cycle;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

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7C Feeding Relationships

This interactive presentation is designed to teach:

- what a habitat is and how habitats vary;
- how plants and animals are adapted to live in a particular habitat;
- how plants and animals interact with their environment and each other, including feeding relationships and food chains;
- how to link food chains to make webs.

7C Feeding Relationships contains **40 slides** which includes **13 Flash** activities:

- matching organisms to different land habitats;
- matching organisms to different water habitats;
- matching adaptations to an elephant or a lion;
- identifying the function of different adaptations;
- identifying adaptations as daily or yearly events;
- naming organisms as producers or consumers;
- matching the different feeding types to their definitions;
- constructing different food chains;
- identifying the feeding types in a food chain;
- ranking the consumers in a food chain;
- creating a food web from food chains;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

7D Variation and Classification

This interactive presentation is designed to teach:

- that there are differences between different species and within the same species;
- the factors that contribute to variation;
- how organisms can be classified using differences between them.

7D Variation and Classification contains **34 slides** which includes **11 Flash** activities:

- identifying characteristics as environmental or inherited;
- identifying common features between a cow and a dolphin;
- living things classification key;
- matching organisms to their kingdom;
- animals classification key;
- identifying animals as vertebrates or invertebrates;
- identifying the features of different vertebrates;
- matching vertebrates to their classification group;
- identifying the classification group of different animals;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

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8A Food and Digestion

This interactive presentation is designed to teach:

- about different foods and how they can be combined to produce a balanced diet;
- how food is broken down by digestion so it can be used by the body for energy, growth and repair.

8A Food and Digestion contains **27 slides** which includes **9 Flash** activities:

- identifying nutrient-rich foods from a range of different foods;
- the types and proportions of food needed for a balanced diet;
- animation of mechanical digestion showing the journey of food from the mouth to the stomach;
- labelled diagram of the intestines;
- complete the sentences about digestion;
- animation showing what a digestive enzyme does;
- identifying the functions of different digestive enzymes;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

8B Respiration

This interactive presentation is designed to teach:

- the process of respiration;
- how cells are supplied with the materials they need for respiration, including the circulation system and the breathing system;
- different types of respiration.

8B Respiration contains **26 slides** which includes **9 Flash** activities:

- complete the word equation for aerobic respiration;
- animation of blood flowing through a capillary bed;
- inhalation animation;
- labelled diagram of alveoli;
- animation showing gas exchange in an alveolus;
- exhalation animation;
- complete the word equation for anaerobic respiration;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

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8C Microbes and Disease

This interactive presentation is designed to teach:

- the different types of microbe;
- that micro-organisms can be grown to make useful products;
- the role of micro-organisms in infectious diseases;
- about the body's defence systems.

8C Microbes and Disease contains **31 slides** which includes **8 Flash** activities:

- labelled diagram of a bacterium;
- labelled diagram of a virus;
- labelled diagram of a fungus;
- identifying which type of microbes cause which diseases;
- animation of a white blood cell engulfing a bacterium;
- animation of a white blood cell producing antibodies against a microbe;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

8D Ecological Relationships

This interactive presentation is designed to teach:

- how animals and plants can be classified;
- how organisms have special adaptations to help them survive in their habitats;
- feeding types and feeding relationships;
- that living things within a community influence each other and are affected by the environment.

8D Ecological Relationships contains **25 slides** which includes **14 Flash** activities:

- animals classification key;
- vertebrates classification key;
- invertebrates classification key;
- matching vertebrates to their classification group;
- plants classification key;
- matching organisms to different habitats;
- identifying the function of different adaptations;
- naming organisms as producers or consumers;
- four activities highlighting the effect of changing numbers of organisms in a food chain;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

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9A Inheritance and Selection

This interactive presentation is designed to teach:

- about variation and the factors affecting variation;
- investigating variation;
- how inherited characteristics are used in selective breeding.

9A Inheritance and Selection contains **28 slides** which includes **9 Flash** activities:

- highlighting eye colour in a family tree;
- identifying characteristics as environmental or inherited;
- the transition from a cell to DNA;
- animation to show fertilization and cell division;
- animation to show how non-identical twins develop;
- animation to show how identical twins develop;
- true or false activity about selective breeding;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

9B Fit and Healthy

This interactive presentation is designed to teach:

- about fitness and health;
- how the human respiratory, digestive and circulatory systems interact to maintain activity;
- how to measure fitness;
- the respiratory system and the effects of smoking;
- why diet is important;
- about the effects of alcohol;
- about the types of drugs;
- about maintaining fitness.

9B Fit and Healthy contains **39 slides** which includes **13 Flash** activities:

- animation consolidating the utilization of energy in the human body and the systems involved;
- animation showing experiment to burn a cigarette and trap the chemicals produced;
- analyzing some of the chemicals in cigarette smoke and their harmful effects;
- grading opinions about a ban on smoking;
- true or false activity about smoking;
- matching nutrients to their use in the body;
- the types and proportions of food needed for a balanced diet;
- matching deficiency diseases to the missing nutrients;
- the short- and long-term effects of alcohol consumption;
- categorizing different types of drugs;
- animation of different types of joints;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

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9C Plants and Photosynthesis

This interactive presentation is designed to teach:

- about photosynthesis as the key process producing new plant material;
- the process of photosynthesis;
- that the carbon dioxide for photosynthesis comes from the air and that the water is absorbed through the roots;
- that chlorophyll enables a plant to utilise light in photosynthesis;
- about the role of the leaf in photosynthesis;
- what happens to the glucose;
- the role of the roots.

9C Plants and Photosynthesis contains **24 slides** which includes **6 Flash** activities:

- what is needed for photosynthesis;
- complete the word equation for photosynthesis;
- highlighting the detailed structure of a leaf;
- interactive experimental procedure to test leaves for starch;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

9D Plants for Food

This interactive presentation is designed to teach:

- that humans belong to many food chains and are part of a complex food web;
- plants provide food in different forms;
- about factors affecting plant growth, such as fertilizers, competition and pests;
- how management of food production has implications for other animal and plant populations in the environment.

9C Plants for food contains **24 slides** which includes **3 Flash** activities:

- identifying which part of a plant different foods come from;
- anagrams based on key words in the unit;
- multiple-choice review of the unit.

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