

Y7 Revision Sheet - 2010/11

Topic	I Know	I am unsure	I do NOT know
1. CELLS, Tissues & Organs - I need to know:			
what a cell is & what the parts of a cell do;			
the basic parts & how to use a microscope;			
how to make slides;			
what the parts of a cell do;			
all about specialised cells;			
what an organ is & what they are made of;			
the names & positions of the major human organs;			
what an organ system is & the names of some human organs;			
the function of digestive, breathing, circulatory & nervous systems.			
2. SIMPLE CHEMICAL REACTIONS - I need to know:			
how to recognise a chemical reaction when it occurs;			
about some examples of chemical reactions;			
the difference between a physical & chemical change;			
what substances react with acids to form hydrogen;			
how to test for hydrogen gas;			
the meaning of reactant and product;			
which chemicals react together to form carbon dioxide;			
how to test for carbon dioxide;			
what happens when metals burn;			
how to write word equations to show what happens during burning;			
the three things needed to keep a fire burning;			
how fires can be put out;			
some examples of fuels & what happens when they burn;			
how to write word equations to explain the burning of a fuel;			
that burning uses up oxygen.			
3. REPRODUCTION - I need to know:			
what fertilisation is;			
why some animals produce large numbers of eggs;			
why internal development of offspring is better than external development;			
what happens during puberty;			
the names of the human reproductive organs & where they are;			
how sperm & egg cells are adapted to their functions			
about the menstrual cycle and the menopause;			
where fertilisation happens & how the egg cell develops into an embryo;			
about implantation and where this happens;			
how the developing baby is protected and supplied with food & oxygen;			
how the developing baby's waste is taken away;			
how long pregnancy lasts and how birth occurs.			

3.ACIDS & ALKALIS - I need to know:			
the taste of acids;			
the names of some acids, including some common laboratory acids;			
why some acids are more dangerous than others;			
the meanings of some safety symbols;			
that alkalis are another type of dangerous chemical;			
what an indicator is;			
the names of some acids, including some common laboratory acids;			
some examples of common alkalis;			
what a neutral substance is;			
what the pH scale measures;			
the pH numbers of strong & weak acids and alkalis;			
what neutralisation is;			
how to neutralise an acid or alkali;			
some practical examples of neutralisation (e.g. toothpaste);			
how the pH will change if an acid or alkali is diluted.			
4. ELECTRICITY - I need to know:			
about conductors and insulators;			
the symbols used to draw circuit diagrams;			
how to measure current and the unit of current (A);			
what happens to the current in a series circuit;			
how to change the current in a circuit;			
what resistance means;			
what electricity is;			
how resistance of a wire depends on its length;			
the difference between series & parallel circuits;			
how switches can control parallel circuits;			
why parallel circuits are used;			
what happens to the current in a parallel circuit;			
what happens to wires when a current flows through them;			
what fuses are;			
why fuses are used and choosing the correct fuse to use;			
why it is dangerous to touch electrical equipment with wet hands;			
what large electric currents can do to the body.			
5. ECOLOGY MATTERS - I need to know:			
the name of the area where organisms are found;			
the factors an environment contains;			
that organisms are adapted to their environment;			
some adaptations to living in woodland & underground areas;			
some adaptations for living in hot, dry areas;			
some adaptations for living in cold areas;			
some adaptations for living underwater;			
what changes happen in an environment;			
how organisms respond to daily changes;			
how animals & plants respond to seasonal changes;			
the meanings of the words <i>predator</i> , <i>prey</i> , <i>herbivore</i> & <i>carnivore</i> ;			
	Continued....		

ECOLOGY MATTERS - continued			
some adaptations of predators;			
some adaptations of prey;			
how animals are adapted to their source of food;			
what food chains & webs show;			
the words used to describe the different organisms in a food chain;			
what sort of evidence is needed to construct food webs;			
that organisms compete.			