1	2											3	4	5	6	7	0
		Key					1 H hydrogen 1										4 He helium 2
7 Li	9 <b>Be</b>	relative atomic mass atomic symbol										11 B	12 <b>C</b>	14 <b>N</b>	16 <b>O</b>	19 <b>F</b>	20 <b>Ne</b>
lithium 3	beryllium 4		atomic	name (proton	) numbe	r						boron 5	carbon 6	nitrogen 7	oxygen 8	fluorine 9	neon 10
23 <b>Na</b>	24 <b>Mg</b>					_						27 <b>Al</b>	28 <b>Si</b>	31 <b>P</b>	32 <b>S</b>	35.5 <b>CI</b>	40 <b>Ar</b>
sodium 11	magnesium 12											aluminium 13	silicon 14	phosphorus 15	sulfur 16	chlorine 17	argon 18
39 <b>K</b>	40 <b>Ca</b>	45 <b>Sc</b>	48 <b>Ti</b>	51 <b>V</b>	52 <b>C</b> r	55 <b>Mn</b>	56 <b>Fe</b>	59 <b>Co</b>	59 <b>Ni</b>	63.5 <b>Cu</b>	65 <b>Zn</b>	70 <b>Ga</b>	73 <b>Ge</b>	75 <b>As</b>	79 <b>Se</b>	80 <b>Br</b>	84 <b>Kr</b>
potassium 19	calcium 20	scandium 21	titanium 22	vanadium 23	chromium 24	manganese 25	iron 26	cobalt 27	nickel 28	copper 29	zinc 30	gallium 31	germanium 32	arsenic 33	selenium 34	bromine 35	krypton 36
85 <b>Rb</b>	88 <b>S</b> r	89 <b>Y</b>	91 <b>Zr</b>	93 <b>Nb</b>	96 <b>Mo</b>	[98] <b>Tc</b>	101 <b>Ru</b>	103 <b>Rh</b>	106 <b>Pd</b>	108 <b>Ag</b>	112 <b>Cd</b>	115 <b>In</b>	119 <b>Sn</b>	122 <b>Sb</b>	128 <b>Te</b>	127 I	131 <b>Xe</b>
rubidium 37	strontium 38	yttrium 39	zirconium 40	niobium 41	molybdenum 42	technetium 43	ruthenium 44	rhodium 45	palladium 46	silver 47	cadmium 48	indium 49	tin 50	antimony 51	tellurium 52	iodine 53	xenon 54
133 <b>Cs</b>	137 <b>Ba</b>	139 <b>La</b> *	178 <b>Hf</b>	181 <b>Ta</b>	184 <b>W</b>	186 <b>Re</b>	190 <b>Os</b>	192 <b>Ir</b>	195 <b>Pt</b>	197 <b>Au</b>	201 <b>Hg</b>	204 <b>TI</b>	207 <b>Pb</b>	209 <b>Bi</b>	[209] <b>Po</b>	[210] <b>At</b>	[222] <b>Rn</b>
caesium 55	barium 56	lanthanum 57	hafnium 72	tantalum 73	tungsten 74	rhenium 75	osmium 76	iridium 77	platinum 78	gold 79	mercury 80	thallium 81	lead 82	bismuth 83	polonium 84	astatine 85	radon 86
[223] Fr francium 87	[226] Ra radium 88	[227] Ac* actinium 89	[261] Rf rutherfordium 104	[262] <b>Db</b> dubnium 105	[266] Sg seaborgium 106	[264] Bh bohrium 107	[277] Hs hassium 108	[268] Mt meitnerium 109	[271] Ds darmstadtium 110	[272] Rg roentgenium 111	Elements with atomic numbers 112 – 116 have been reported but not fully authenticated						

 $<sup>^{\</sup>star}$  The Lanthanides (atomic numbers 58 - 71) and the Actinides (atomic numbers 90 - 103) have been omitted.

Relative atomic masses for Cu and Cl have not been rounded to the nearest whole number.

Teeth.

Crown: Part of the tooth visible above the gumline.

Enamel: Strong white outer layer of the tooth.

Dentin: Cream coloured layer beneath the enamel.

Neck: a narrow point in the tooth where crown meets gum.

Pulp: is the 'living' part of the tooth, it is made up of blood vessels, nerves and tissue.

Root: found below the gum-line and hold the tooth in place.

Cementum: cements the tooth in the jaw.

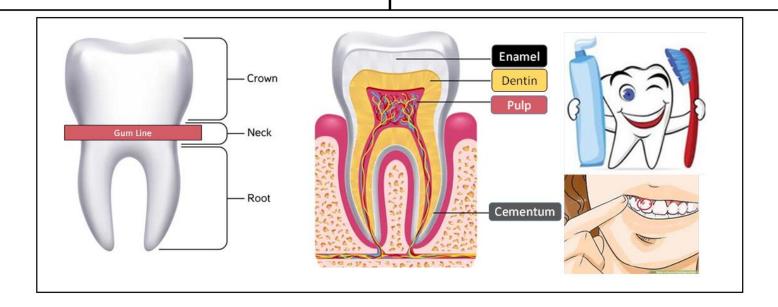
Tooth decay: the softening of your tooth enamel caused by acids that are created when plaque bacteria break down sugar in your mouth.

Cavities: are holes caused by tooth decay.

Incisors: nipping off tough plant or meat.

Canines: piecing and locking on to prey.

Pre-molars and Molars: grinding harder materials. Linking the types of teeth an animal has to the diet that they eat.



## Skeleton

Skull: Several plates of bone in the head.

Spine: A number of small vertebrae that make up the backbone.

Ribcage: Ribs form a cage that protects the vital organs in the chest.

Humerus: Long bone in the upper arm.

Ulna and Radius: Two bones in the forearm.

Pelvis: Hip bone, where the legs attach.

Femur: Long bone in the upper leg.

Patella: small floating bone known as the knee cap.

Tibia and Fibula: Two bones in the lower leg.

Scapula: The collar bone.

Tendons: Fibres that connect muscle to bone

Ligaments: Fibres that connects bone to bone.

Cartilage: Reduce wear between rubbing bone.

Synovial Fluid: Reduces friction between bones.

Ligaments: Connects bone to bone.

Cartilage: Reduce wear between rubbing bone.

Synovial Fluid: Reduces friction between bones.

Joints: Where two bones meet. There are several types of joints including; 'pivot', 'ball and socket', 'hinge', and 'fixed' joints.

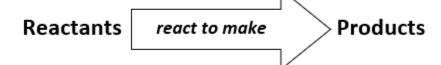
Antagonistic pairs of muscles: Two muscles working together by alternating which is contracted and which is relaxed in order to allow a 'move and return' action.

Chemical reaction – a change in which atoms are rearranged to create new substances. e.g. iron rusting, burning wood, cooking an egg, baking a cake, rotting banana, battery, fireworks

Reactant - a starting substance in a chemical reaction.

**Product** – a substance that is made in a chemical reaction.

**Word equation** – a simple way of representing chemical reaction. The reactants are on the left of an arrow, and the products are on the right. The arrow means reacts to make.



## **Forces**

## **Key Vocabulary:**

Acceleration: The rate at which an

object's velocity changes

Air resistance: The force of air acting

on a moving object

**Balanced forces:** Two forces of equal

size acting in opposite directions

**Contact force:** A force that must touch

an object to affect it

**Friction:** The force caused by one

surface touching another surface

**Gravity:** A force that attracts an object

towards the centre of another object

Magnetism: The force between two

magnets or between a magnet and a

magnetic material

**Motion:** Movement

**Newton:** The unit for force

Non-contact force: A force that can

affect an object without touching it

**Tension:** The force acting on an object

that has been stretched

Thrust: A 'pushing' force

**Up-thrust:** The force that acts upwards

on an object, often from air-resistance

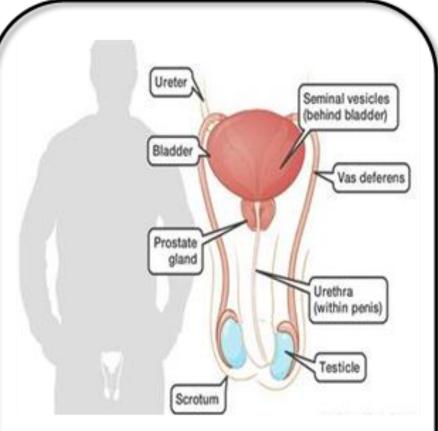
or water

**Velocity:** The scientific word for

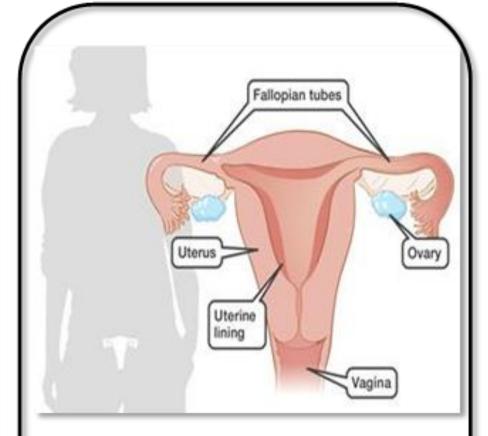
'speed'

Weight: The force that results from an

object's mass and the effect of gravity



The SCROTUM holds the TESTICLES which contain the TESTES where sperm are made. The SPERM TUBE (vas deferens) carries sperm towards the PENIS. Seminal vesicles (GLANDS), add a liquid called semen to the sperm. The ureter carries urine from the bladder towards the penis. The urethra carries sperm and urine through the penis to the outside.



The VAGINA is the opening of the female reproductive system. At the top of the vagina is a ring of muscle called the CERVIX. This opens into the UTERUS, which is where a foetus can develop. The uterus connects to the OVIDUCT (sometimes called the fallopian tube). Once a month an egg is released into the oviduct from an OVARY.