

Year 7 – Kemnal Keys



	Biology	Chemistry	Physics
1	206 bones make up an adult human skeleton.	In solids the particles are very close together.	A force is a push or pull on an object that is caused by
	The skeleton has 4 specific roles:	In liquid the particles are close together but can	an interaction.
	Support the body	move in any direction.	Forces are either contact or non-contact forces.
	 Protects organs 	In a gas the particles are very far apart and move	Contact forces : Friction, air resistance, tension.
	 Allows movement 	quickly in all directions.	Non-contact: Gravity, Magnetic, Electrostatic. Forces
	 Produces blood cells 		are measured in Newtons (N)
2	Muscles either contract or relax.	Solids – difficult to squash, can't be poured, can't	Gravity attracts all masses. But you only notice it when
	The are 3 types of muscle:	change shape	one of the masses is really big. Example: Planet Earth.
	Skeletal muscle allow you to move and are attached	Liquids – difficult to squash, can be poured, can	Weight & Mass are not the same. Mass (kg) is the
	to the skeleton. Cardiac muscle - muscles of the	change shape	amount of 'stuff' in an object. The same anywhere in
	heart (involuntary) Smooth muscle is found in the	Gas – can be squashed, can be poured, can change	the universe. Weight is the force acting on an object
	walls of hollow organs like your intestines and	shape	due to gravity. Weight = Mass x Gravitational field
	stomach. (Involuntary)	Intermolecular forces hold particles in their positions	strength.
3		<u>Pure substance</u> – contains only one type of particle.	In physics, a field, is a region in which each point is
	(Immovable)		affected by a force. An electric field surrounds an
	<u>Types of synovial Joints:</u> Pivot, Hinge, Ball & Socket,	Mixture – made up at least two pure substances.	electric charge, a gravitational field surrounds a large
	Saddle, Gliding, Condyloid		mass.
4	Blood is pumped around the body by the heart	Simple distillation can separate a liquid and a solid.	All magnets have 2 poles (North and South). All
	called the circulatory system .	Fractional distillation can separate a mixture of	magnets have a magnetic field.
	The heart has 4 chambers; Left & Right Ventricle	liquids like crude oil.	Two poles that are the same will repel each other. Two
	and Left & Right Atrium separated by valves.		poles that are different will attract each other.
5	Autorias Carry avyganatad blood away from the	Chromatography is a lab tochnique for congrating	Electromagnets is a magnet whose magnetic field can
٦	Arteries – Carry oxygenated blood away from the heart.	Chromatography is a lab technique for separating components of a mixture – they travel through	Electromagnets is a magnet whose magnetic field can be switched on and off with an electric current.
	Veins – Carry deoxygenated blood back to the	paper at different speeds.	Electric currents can create magnetics fields. The
	heart.	paper at uniciciit specus.	strength of electromagnets can be increased by
	Capillaries – are tiny blood vessels connecting		wrapping a wire around an iron core. (Solenoids)
	Arteries and Veins.		wrapping a wire around all from core. (Soleholds)
	Autories and Veills.		

Quiz Time

Week 1 Quiz

- 1. How many bones make up the human skeleton?
- 2. What 3 particles make up an atom?
- 3. Describe the difference between contact and non-contact forces
- 4. Identify the difference between a compound and an element
- 5. Identify 2 roles of the human skeleton

Week 2 Quiz

- 1. Identify the 3 types of muscle
- 2. A table showing all the elements is called _____?
- 3. Describe the term Gravity
- 4. Explain the difference between Weight and Mass
- 5. True or False, on the moon my Mass is the same as it is on Earth?

Week 3 Quiz

- 1. Identify 3 types of synovial joints.
- 2. What type of joint is the knee joint?
- 3. Describe the Dalton model of the atom
- 4. Describe a 'field' in Physics terms.
- 5. What charge is an electron?

Week 4 Quiz

- 1. What system pumps blood around the body?
- 2. How many chambers does the heart have?
- 3. True or False the highest energy electron shell is closest to the nucleus?
- 4. Magnets have 2 poles, what are they called?
- 5. 2 poles the same, will _____ each other?

Week 5 Quiz

- 1. What is the law of conservation of mass?
- 2. Arteries carry blood _____ the heart
- 3. Veins carry blood _____ the heart
- 4. What blood vessel connects veins and arteries?
- 5. Describe an electromagnet

Week 6 Quiz