	What? When? Why?			
	BIOLOGY 7A – Life processes and Multicellular Organisms	CHEMISTRY 7E – Separating Mixtures	PHYSICS 7I - Energy	BIOLOGY 7B - Reproduction
Introduction Lesson	Introduction to the lab – rules and safety. How science works, etc			orks, etc
Lesson 1 Learning intentions (what can a student do at the end of the lesson)	To understand how to use life processes to justify if something is an organism or non-living.	To be able to group materials using their states of matter as justification.	To be able to explain the differing energy needs of people of different ages and activity levels.	To be able to compare the amount of care of offspring in fish, birds and mammals; and to be able to compare the sexual reproduction of fish, birds and mammals
Lesson 2 Learning intentions	To be able to describe the functions of a large range of human, animal and plant organs.	To understand how to classify mixtures as suspensions, colloids and solutions, based on what they look like and whether they separate on standing.	To be able to carry out a practical to assess the level of energy in different types of dried food.	To be able to describe the functions of the human reproductive systems
Lesson 3 Learning intentions	To be able to describe the functions of different tissues in a human organ.	To be able to describe what is seen when a solid dissolve, and correctly use the terms:	To be able to describe what conservation of energy is and relate it to real life examples.	To be able to explain how sperm and egg cells are specialised for their function  To be able to describe how the

		soluble, solute, solvent, solution.		fusing of gametes and their nuclei during fertilisation forms a fertilised egg cell.
Lesson 4 Learning intentions	To be able to describe the functions of different tissues in a plant organ	To be able to understand what happens when a liquid will not dissolve any more of a solid and use correctly the terms: solubility, saturated solution.	To be able to describe advantages and disadvantages of different energy resources and what happens in a fuel cell.	To be able to describe what happens following the fertilisation of an egg cell including cell division  To be able to describe the supply and removal of materials from and to the foetus  To be able to describe the supply and removal of materials from and to the foetus
Lesson 5 Learning intentions	To be able to describe how to use a light microscope to examine a slide. And calculate total microscope magnification using correct formula	To be able to describe how you would use evaporation in order to separate a solvent from a solute	To be able to understand what the factors that make up a good fuel are and compare the temperature rise of water when some fuels are burnt.	To be able to identify stages of growth from embryo to newborn baby and recall how these stages can be checked.  To be able to describe what happens during labour and birth in humans.  To be able to explain why breast milk is best for newborn babies.

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Lesson 6 Learning	To be able to describe how to	To be able to give examples of	describe	To be able to identify the role of
intentions	prepare a	where	advantages and	sex hormones in
	microscope slide	chromatography is used, and	disadvantages of	puberty.
		describe how	different renewable,	To be able to
		chromatography	energy	describe what
		is used to	resources.	happens to parts of the body during
		separate mixtures.		puberty and
		illixtures.		adolescence.
Lesson 7	To be able to	To be able to		To be able to
Learning	identify cells as	give examples of		explain the
intentions	plant or animal and describe the	where distillation is		purpose of the menstrual cycle.
	functions of	used, and		To be able to use
	different cell	describe how		knowledge of the
	features	distillation can separate		menstrual cycle to
		mixtures.		predict timings
				(e.g. of
				menstruation, ovulation, fertile
				period).
Lesson 8	To be able to			
Learning	describe how			
intentions	mineral salts and water are			
	absorbed and			
	moved around a			
	plant.			
	Measure plant			
Lesson 9	water loss To be able to			
Learning	describe the			
intentions	functions of the			
	digestive,			
	circulatory,			
	breathing, urinary and			
	nervous systems			
Lesson 10	To be able to			
Learning	recall and revise			
intentions	all content from the topic and to			
	the topic and to			

	outline key		
	concepts		