

Year 7 Science Personalised Learning Checklist- Summer 1
Interdependence and Cells

	Learning Statements	R	A	G
1	Identify living things (using MRS NERG)			
2	Classify living organisms into the five kingdoms (animals, plants, fungi, prokaryote and protists)			
3	Classify animals into phylum (vertebrates and invertebrates)			
4	Classify vertebrates into the five classes (mammals, birds, reptiles, amphibians and fish) giving justifications for classification			
5	Use a classification key to classify organisms			
6	Create a classification key that can be used to classify organisms (Extension only)			
7	Define "habitat", "population", "species", "competition", "interdependence", "ecosystem", "producer", "consumer", "decomposer"			
8	State three things that organisms depend and compete with each other for			
9	Sequence organisms to create a food chain			
10	Explain what the arrow in a food chain represents			
11	Combine food chains to produce a food web			
12	Explain how changes in the number of one organism can have an affect on another organism in a food web			
13	Interpret predator prey graphs (Extension only)			
14	Describe the sampling techniques that are used to collect population data (Extension only)			
15	Construct a pyramid of numbers			
16	Construct a pyramid of biomass (Extension only)			
17	Explain why biomass decreases as you move along a food chain (Extension only)			
18	Identify sub-cellular organelles in plant and animal cells (nucleus, cytoplasm, cell wall, cell membrane, chloroplast, mitochondria, ribosome, vacuole)			
19	Compare and contrast animal and plant cells			
20	Describe the difference between a prokaryotic and eukarotic cell			
21	Label a light microscope			
22	Use a light microscope to identify subcellular organelles in an animal and plant cell			
23	Describe and explain the adaptations of the following specialised cells (ovum, sperm, ciliated cell, muscle cell, red blood cell, nerve cell, palisade and root hair cell)			
24	Define stem cells and explain where they can be found in both plants and animals			
25	Order cells, tissues, organs and systems in terms of size			