Independent Learning Grid

Yr7 – Assessment period 1

Each assessment period, you will be set a grid of tasks to be completed over the duration of the topic. Each grid gives you a choice on which tasks to do and how much you wish to challenge yourselves – attempting either the 'core, 'extension' or 'challenge' version of the task.

Level of Challenge	Deadline week (W/C)					SPAG
	25/9/17	2/10/17	9/10/17	16/10/17	30/10/17	
Core 5 points	Draw & label a plant and animal cell.	Name and draw 5 specialised cells.	Draw the particles in ice, water and steam.	Draw a diagram to show all the changes of state.	**Revision for test.** **Topics to be revised:** Microscopes Plant cells Animal cells Specialised cells Movement of substances Unicellular organisms Particle model States of matter Change of state Diffusion Gas pressure **Tips for revision:** Make flash cards Quiz your	Cells: Cell membrane Nucleus Cytoplasm Chloroplast Cell wall Vacuole Plant Animal Microscopic Specialised States of matter: Solid Liquid Gas Particles Melting Boiling Evaporation Condensing Freezing Properties
Extension 10 points	Construct a table showing the functions of all the sub-cellular structures.	Create a wanted poster for a specialised cell of your choice. It must explain how this cell is adapted to function.	Write 3 paragraphs that describe the properties of each state.	Draw a poster that explains why an ice cube melts when left out of the freezer and what happens to the water when it is left in a beaker for a while.		
Challenge 15 points	Make a 3D model of a cell. Make sure it has labels and functions of the sub-cellular structures.	Design and label your own special cell to explain how it's adapted for its function. It is an animal cell. This cell must be able	Create and complete a table to investigate the following toothpaste, blu-tac/play-doh, ice, air in a balloon, water. You must observe the	Research the water cycle and draw a labelled diagram. Make sure you highlight where changes of state occur.		

		to- • Move around. • Carry a lot of information in the nucleus. • To be able to make its own food from light.	following properties: • Can they be compressed? • Do they take the shape of the container? • Do they flow? • Do they have a fixed shape?		friends Summarise notes Construct spider diagrams to summarise topics Use colours / highlighters Find a quiet place to work Purchase a revision guide from school. Try past exam questions.	
Super Challenge 20 points	Look at the graph of ice being heated. Describe what is happening at each stage. Use the internet to find an explanation for this.