



Grade 9

School-without-Walls Package 12 (14 June to 18 June 2021)

Homework_Day 1 (14 June 2021)

Subject	Click on the Youtube Links	Things to Note
English	Zoom Class	https://us02web.zoom.us/j/87821291412?pwd=ZTVMeUdlY1NzLy94d3dhY2gvd1FaZz09 Meeting ID: 878 2129 1412 Passcode: 2021G9
Mathematics	Zoom Lesson from 11am to 1pm	Complete the work assigned in the zoom session
Biology	Zoom Lesson – 11am to 1pm Click HERE to download Chapter 4 slides. Write the important notes in your exercise book.	
Portuguese	Conteúdo: SE APASSIVANTE Objetivo: Estudantes pode ser: Transformar as frases para se apassivante. - Se apassivante Português On-line. https://youtu.be/wawy4SITlzM - Click on Se apassivante to read the worksheet.  SWW Package 12 - Port - Se apassivante	Prova - Clique (click) no link abaixo e responda as perguntas. Não se esqueça de enviar! https://forms.gle/rgjX1CGnjp7wP8A8 Não esqueça! Copia exercício de PDF no seu caderno Português!

Homework_Day 2 (15 June 2021)

Subject	Click on the Youtube Links	Things to Note															
English	a) Use Google to find the definition of the following words from your Readworks Comprehension "Stargazing" and write them in your English notebook. <ul style="list-style-type: none"> - in common - examination - overthrow - execute - restore - priority - daunting - flee - aspirations - potential 																
Mathematics	Factorising Algebraic Expressions of the form $a^2 + 2ab + b^2$ Factorisation using cross multiple method https://youtu.be/at7MIBm-it8	Copy Worked Example 16 Homework : Ex 6D #4a,b,c															
Biology	Chapter 5 – Cytology Answers to SWW Package 11 (8 June 2021) <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr style="background-color: #cccccc;"> <th style="text-align: left;">Year</th> <th style="text-align: left;">Who</th> <th style="text-align: left;">Discoveries</th> </tr> </thead> <tbody> <tr> <td>1665</td> <td>Robert Hooke</td> <td>* Introduced the word CELL and start the journey of cytology</td> </tr> <tr> <td>1682</td> <td>Antonie van Leeuwenhoek</td> <td>* blood is made of cells * Cell has a central part * living cells did not arise from nonliving materials or contain mini versions of adult organisms.</td> </tr> <tr> <td>1831</td> <td>Robert Brown</td> <td>* Named the central cell part NUCLEUS</td> </tr> <tr> <td>1837</td> <td>Matthias Schleiden Theodor Schwann</td> <td>* All plants and animals are made of cells</td> </tr> </tbody> </table>		Year	Who	Discoveries	1665	Robert Hooke	* Introduced the word CELL and start the journey of cytology	1682	Antonie van Leeuwenhoek	* blood is made of cells * Cell has a central part * living cells did not arise from nonliving materials or contain mini versions of adult organisms.	1831	Robert Brown	* Named the central cell part NUCLEUS	1837	Matthias Schleiden Theodor Schwann	* All plants and animals are made of cells
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1855	Robert Remak	* Cells divides, producing new cells
1858	Rudolf Virchow	* All cells come from preexisting cells
Years later		Modern Cell theory * Cells are the structural and functional units of all living things * Cells come only from other preexisting cells

Typical Bacterial Cell (prokaryote)

Part	Where is it found?	Function (purpose)
Cytoplasm	Within the cell membrane except the nucleus	A fluid in which organelles are suspended and has molecules used for building structures in the cell
Cytoskeleton	System of fibers in the cytosol	Maintain cell's shape and provide protein motors. A track to move substances around the cell
Capsule	In bacteria outside the cell membrane and cell wall	Protect the cell, contain water to keep cell from drying out
Nucleoid	In prokaryotes	Contain genetic material for the cell
Flagelium	Extension of cytoskeleton	Propels the cell through its environment using a protein motor

Homework_Day 3 (16 June 2021)

Subject	Click on the Youtube Links	Things to Note																								
English	a) Sentence Formation	https://forms.gle/zUBi42sfTJidE6Yr7																								
Mathematics	Wednesday morning at 8:00-10:00 am Zoom ID:899 9801 2460																									
Biology	<p>Chapter 5 – Cytology</p> <p>Answers to SWW Package 11 (9 and 10 June 2021)</p> <p>Typical Plant Cell (Eukaryote)</p> <table border="1"> <thead> <tr> <th>Part</th> <th>Where is it found?</th> <th>Function (purpose)</th> </tr> </thead> <tbody> <tr> <td>leucoplast</td> <td>Colourless plastid found in plants and algae</td> <td>Store starches, lipids and proteins</td> </tr> <tr> <td>Cell wall</td> <td>In plants, algae, fungi and bacteria</td> <td>Provide strength and rigidity to cell Contain pores so that materials can pass through it</td> </tr> <tr> <td>Chloroplast</td> <td>Found in plants and algae</td> <td>Convert light energy from the sun into chemical energy</td> </tr> <tr> <td>Granum</td> <td>Inside chloroplast</td> <td>Contain green pigments to carry out photosynthesis</td> </tr> <tr> <td>ribosome</td> <td>In prokaryotes and eukaryotes, not surrounded by a membrane</td> <td>Line up amino acids to make proteins</td> </tr> <tr> <td>Rough ER</td> <td></td> <td>Transport compounds around the cell Help maintain cell's shape Process proteins made by ribosomes</td> </tr> <tr> <td>Smooth ER</td> <td></td> <td>Transport compounds around the cell Help maintain cell's shape Process fats and breaks down toxic</td> </tr> </tbody> </table>		Part	Where is it found?	Function (purpose)	leucoplast	Colourless plastid found in plants and algae	Store starches, lipids and proteins	Cell wall	In plants, algae, fungi and bacteria	Provide strength and rigidity to cell Contain pores so that materials can pass through it	Chloroplast	Found in plants and algae	Convert light energy from the sun into chemical energy	Granum	Inside chloroplast	Contain green pigments to carry out photosynthesis	ribosome	In prokaryotes and eukaryotes, not surrounded by a membrane	Line up amino acids to make proteins	Rough ER		Transport compounds around the cell Help maintain cell's shape Process proteins made by ribosomes	Smooth ER		Transport compounds around the cell Help maintain cell's shape Process fats and breaks down toxic
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		substances in the liver
Central Vacuole	In plants	Store water, salts, sugars and proteins Maintain Turgor Pressure to keep the cell rigid

Typical Animal Cell (Eukaryote)

Part	Where is it found?	Function (purpose)
nucleus	In Eukaryotic cells	Controls actions of the cell and contains its genetic materials
Nucleolus	In area of the nucleus where ribosomes are assembled	Contains RNA and proteins
Chromatin	The genetic material of the nucleus	Contains DNA, RNA and proteins
Lysosome	Vacuole found in humans, animals and animal like cells	Contains digestive enzymes, kill bacteria and viruses, recycle old cell parts, release waste outside the cell
Mitochondrion		Transform energy from sugar into usable energy for the cell, Powerhouse of the cell
Cell membrane	Surround the cells	Protect the cell and allow certain materials to move through it, contain proteins that performs different functions of the cell
Cilia	Extension of the cytoskeleton, cover the entire cell usually	Propel cell through the environment, Move particles past the cell
Golgi apparatus		Post office of the cell

Give three differences between animal cells and plant cells.

Plants cells have **cell wall**, **central vacuole** and **chloroplasts** but animals cells do not have them.

Portuguese	Quiz sobre capitais de Países https://www.youtube.com/watch?v=E2sKyeGLZTM	Quiz - Clique (click) no link abaixo e responda as perguntas. Não se esqueça de enviar! https://forms.gle/xLJQwVCV4rQsnqQL8
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Homework_Day 4 (17 June 2021)

Subject	Click on the Youtube Links	Things to Note
English	Complete Activity 12-2 and 12-3 in your Writing and Grammar book	
Mathematics	Mathematics Online Test on Chapter 5& 6 Click Math Test 4a - Sec 2 NA Chapter 5 & 6 docx to see the test paper	Do all the questions in maths notebook 1 within 30 minutes. Follow the instruction in the test paper to submit your answers to https://forms.gle/3uho8QXeLE6oRpWg6
Biology	<ol style="list-style-type: none">1. Go to www.readworks.org/student2. Enter class code LQLDXX3. The default password is 12344. Click on your name and read about Famous Scientists - Robert Hooke	

Homework_Day 5 (18 June 2021)

Subject	Click on the Youtube Links	Things to Note
English	Readworks Comprehension <ul style="list-style-type: none"> - Go to www.readworks.org - Click "Student Login" - Enter Class Code "LQLDXX" - Click on your name - Enter Password "1234" Complete comprehension assignment	
Mathematics	Download 2NA Math Chapter 3 Chapter 3 Direct and Inverse Proportions student notes View Proportion, Equivalent Fraction, Ratio https://youtu.be/USmit5zUGas	Copy Worked Example 1 in maths 1 Homework Exercise 3A #1,2,5,6
Biology	<ol style="list-style-type: none"> 1. Go to www.readworks.org/student 2. Enter class code LQLDXX 3. The default password is 1234 4. Click on your name and read about The Cells That Make Us 	
Portuguese	15 Questões que você deve saber em português https://www.youtube.com/watch?v=jwSaKWp2wwE	Prova - Clique (click) no link abaixo e responda as perguntas. Não se esqueça de enviar! https://forms.gle/yLu3efQc88jjTiv87