Study Guide for **Grade 7** Unit 3 assessment

Subject: Science
Date of Assessment: **17th February 2020**
Duration of test: 1 lesson
You are expected to study from:

- **Cells and Heredity**

Learning expectation
Students are expected to

- **Understand the concept and not solely memorize vocabulary**
- **Apply concept knowledge to answer the questions**
- **Try answering/solving side questions on the lessons in the textbook as a practice of critical /higher order thinking questions**
- **Not just rely on textbook information but also look into the video and weblinks shared on google classroom as reference of concepts taught in class**

1. Textbook lessons

Chapters	Topic
Chapter 1	Section 1.1 Discovering cells
	Section 1.2 Looking inside cells
	Section 1.4 The cell and its environment
Chapters	**Topic**
Chapter 2	Section 2.1 Photosynthesis
	Section 2.2 Cellular respiration

2.Concepts to focus on

Section 1.1Discovering cells	**Section 1.2 Looking inside cells**	**Section 1.4 The cell and its environment**
• Identify what are cells • Describe the cells theory • What microscope • What are the types of microscopes? • Compare and contrast the types of microscopes • What substances can enter and leave the cell.	• How do parts of the cell work? • What is the structure and function of the organelles of the cell? • Compare and contrast between animal cell and plant cell • Specialized cells • How cells work together • Label plant and animal cell	• How do materials move into and out of cells? • The structure of the cell membrane • What is the difference between Active transport and passive transport? • Compare and contrast between endocytosis and exocytosis.

Section 2.1 Photosynthesis	**Section 2.2** Cellular respiration
• How do living things get energy from the sun? • The sun as a source of energy • What happens during photosynthesis- Step 1 and step 2? • The photosynthesis equation	• What happens during cellular respiration? • What happens during fermentation? • Compare and contrast photosynthesis and cellular respiration • How do living things get energy

3.Useful weblinks

Discovering Cells : https://ed.ted.com/lessons/the-wacky-history-of-cell-theory
Looking inside the cell: https://www.youtube.com/watch?v=8IlzKri08k
Cells in its environment : https://www.youtube.com/watch?v=eI5C4Gq8Rew.
Photosynthesis:
https://video.search.yahoo.com/search/video?fr=mcafee&p=photosynthesis+video#id=1&vid=5ff5633a41f38761fa94dc5d5fcae85b&action=click
Cellular respiration :
https://video.search.yahoo.com/search/video;_ylt=AwrE19uC7fFdj.wAyR9XNyoA;_ylu=X3oDMTE0bWZmNWI0BGNvbG8DYmYxBHBvcwMxBHZ0aWQDQjY4MzNfMQRzZWMDcGl2cw--?p=cellular+respiration&fr2=piv-web&fr=mcafee#id=2&vid=bfe69843ea1b44368b0a19597b314180&action=view

4.Assessments

Title	Section
Mid check	Chapter 1
Pop quiz	All pop quizzes conducted during unit 3

5.Refer to class notebook and google classroom for the following documents

- Graphic organizers / tables/summaries done in class on their classwork notebook
- Pop quiz questions
- Videos posted on google classroom
- Weblinks posted on google classroom
- Asses your understanding questions that are on the textbook for every lesson mentioned

6.Types of questions to be expected on the test – all questions will be based on skills covered in class

- Critical thinking questions
- Higher order thinking questions
- Analytical question
- Open minded question

7.Students should bring

- Pencil
- Color pencils
- Pen blue or black only
- Corrector