

**SMK CONVENT BUKIT NANAS, KUALA LUMPUR**  
**CONTOH PENULISAN RANCANGAN TAHUNAN, MINGGUAN DAN HARIAN**

**YEARLY PLAN**

THEME : INVESTIGATING THE CELL AS A BASIC UNIT OF LIVING THINGS

LEARNING AREA: 1.0 CELL STRUCTURE AND CELL ORGANISATION

WEEK	LEARNING OBJECTIVES	SUGGESTED LEARNING ACTIVITIES	LEARNING OUTCOMES	NOTES
1	1.1 Understanding cell structure and function	<p>Prepare and study slides to compare the epidermal cells of onion or cells of <i>Hydrilla</i> leaf with human cheek cells.</p> <p>Study electron micrographs of animal cells and plant cells to identify cellular components of cell:</p> <p>a) plasma membrane and cell wall            b) cytoplasm            c) organelles            i) nucleus, nucleolus, chromosomes, nucleoplasm and nuclear membrane.            ii) rough &amp; smooth endoplasmic reticulum            iii) mitochondria            iv) Golgi apparatus            v) lysosomes            vi) ribosomes            vii) chloroplasts            viii) centrioles            ix) vacuoles</p>	<p>A student is able to:</p> <ul style="list-style-type: none"> <li>• draw and label an animal cell.</li> <li>• draw and label a plant cell</li> <li>• identify the cellular component of an animal cell</li> <li>• identify the cellular components of a plant cell</li> </ul>	

## WEEKLY PLAN

WEEK: 2 7.10.07 – 11.1.07

SUBJECT	FORM	TOPIC
BIOLOGY	4U 4N	1.0 CELL STRUCTURE AND CELL ORGANISATION 1.1 Understanding cell structure and function.

## DAILY PLAN

WEEK : 2

DATE: 8.1.07

DAY : MONDAY

Class : 4U

Time : 8.05-9.10

Subject : Biology

Topic : Cell structure and cell organisation

Subtopic : Understanding cell structure and function

Objective : Students are able to:

1. identify the cellular components of an animal cell.
2. identify the cellular components of a plant cell.

Activities :

1. Observe the cellular components of an animal cell in Lesson 3 CD1.
2. Observe the cellular components of a plant cell in Lesson 3 CD.
3. Label verbally the cellular components of an animal cell on transparency.
4. Label verbally the cellular components of a plant cell on transparency.
5. Discuss, compare and present the structure of animal and plant cells in the form of a table.
6. Written exercise – draw, colour and label an animal cell and a plant cell in Book 2.

Teaching aids : LCD, notebook, transparency.

Reflection : 80% of the students are able to identify the cellular components of the animal and plant cell correctly.