



Addis Ababa City Administration
Education Bureau

Table of Specification (**TOS**) for 2017E.C

Grade 7 first semesters General Science final
Examination

December/ 2017E.C

Introduction

Test blueprint or table of specifications

- ✓ The test blueprint, sometimes also called the table of specifications, provides a listing of the major content areas and cognitive levels intended to be included on each test form. It also includes the number of items each test form should include within each of these content and cognitive areas.
- ✓ Creating a test blueprint will help us to plan which questions are needed to include in our exam and ensure that it adequately assesses the learning objectives of the course. A test blueprint defines the knowledge and skills we want to assess and will enable us to build purpose-driven, successful assessments, Tests, Exams etc...
- ✓ Steps in preparing table of specification
 1. List down the topics covered for inclusion in the test
 2. Determine the objectives to be assessed by the test.
 3. Specify the number of periods spent for teaching a particular topic.
 4. Determine the number of item as

$$\text{Number of item} = \frac{\text{time spent/period/ for the topic } \times \text{total nuber of item}}{\text{total time/period/ spent to the grading in semester}}$$

Item Specification

- Item Specification is prepared with help of curriculum materials
- Curriculum specification and student's text are its main source to decide the weight and number of items desired to be written
- Item specification is the basic document in the test blueprint
- Item specification includes:
 - Grade level, 7
 - Content (Topic) of which items have to be written,
 - Number of periods spent, 74
 - Behavioral dimension in which items to be written should have

Choose (cho) = 22 questions

True/false (T/F) = 8 questions

Fill in the blank (F/B) = 3 questions

Write (W) = 2 questions

Matching (M) = 5 questions

Unit	Content areas	Periods	Behavioral dimensions				Total Number of test	
			Knowledge	Comprehension	Application	Analysis, synthesis and evaluation	Actual	Adjusted
1	Basic Concept of science	11						
1.1	The nature of science and its branches •Branches of natural science •Science and technology •Famous scientists of the world and Ethiopia	6	1T/F	1T/F 1 CHO	-	-	3.2	3
1.2	Common laboratory equipment, uses, safety rules and procedures in science laboratories •Common laboratory equipment •Personal protections •Hazard signs	5	-	2 T/F	1 Cho	-	2.7	3
2	Matter in our surrounding	38						
2.1	Characteristics and nature of matter •Meaning and properties of matter •Particulate nature of matter •Characteristics of the particles of matter •Particulate theory of matter •Explaining observations using the particulate nature of matter	11	1 Cho 1 T/F	2 Cho	2 Cho		5.9	6
2.2	Physical and chemical properties of matter •Physical properties of matter •Chemical properties of matter	6	1 T/F	2Cho	-	-	3.2	3
2.3	Classification of substance •A pure substance •Elements and compounds •Classification of element •Mixtures – Homogenous mixtures and Heterogeneous	8	1T/F 1 CHO	1T/F 1 CHO	1 Cho		4.3	5
2.4	Changes around us •Physical and chemical changes of substance •Importance of physical and chemical changes in our life	6	1 M	2 M	-	-	3.2	3

	•Useful and harmful changes							
2.5	Separation of mixtures and its application •Method of separation of mixtures •Application of separation techniques	7	2M	1 Cho	-	1 W	3.7	4
3	Elements, compound and chemical reaction	17						
3.1	Elements and their representation •Common elements •Chemical symbols •Writing symbols	2	1 W	-	-	-	1.08	1
3.2	Compound and their representation •Compounds •Valance number •polyatomic ions	6	1 Cho	1 Cho	1 CHO	-	3.2	3
3.3	Simple chemical reactions and equations •Simple chemical reaction •Evidence that show chemical reaction has occurred •Law of conservation of mass •Investigating chemical reaction •Balancing chemical equation	7	2 Cho	-	1 Cho	1 Cho	3.7	4
3.4	Uses of chemical reaction in everyday situation •Uses of chemical reaction •Effect of chemical reaction in daily life and on the environment	2	1 Cho	-	-	-	1.08	1
4	Cell as the basis of life	8						
4.1	Microscope 4.1.1. purpose and invention of microscope 4.1.2. Types of microscope 4.1.3. Basic parts of light microscope and their func.	8	1 Cho	2F/B	1 F/B		4.3	4
		74	15	16	7	2		40

Reviewer exam expert name _____ sign _____