



SEKOLAH MENENGAH KEBANGSAAN SUNGAI PASIR
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SAINS TINGKATAN 3
ANALISA DAN FOKUS PEPERIKSAAN PMR

Bab	Tajuk Tingkatan 1	Tahun							
		04	05	06	07	08	09		
1	INTRODUCTION TO SCIENCE								
1.1	Science is part of everyday life								
1.2	Steps in scientific investigation								
1.3	Physical quantities and their units								
1.4	Measuring tools								
1.5	Mass								
1.6	Standard units in everyday life								
2	CELL AS A UNIT OF LIFE								
2.1	Cells	1	1						
2.2	Unicellular and multicellular organisms								
2.3	Organisation of cells in the human body			7	1				
2.4	Humans are complex organisms								
3	MATTER								
3.1	Matter								
3.2	States of matter		2						
3.3	Density	8							
3.4	The use of properties of matter in everyday life								
4	THE VARIETY OF RESOURCES ON EARTH								
4.1	The different resources on Earth								
4.2	Elements, compounds and mixtures						1		
4.3	Appreciating importance of the variety of Earth's resources								
5	THE AIR AROUND US								
5.1	The composition of air					1			
5.2	The properties of oxygen and carbon dioxide								
5.3	Oxygen is needed for respiration						2		
5.4	Oxygen is needed for combustion								
5.5	The effects of air pollution								
5.6	The importance of keeping the air clean								
6	SOURCES OF ENERGY								
6.1	The various forms and sources of energy								
6.2	Renewable and non-renewable energy sources			2					
6.3	The importance of conserving energy sources								
7	HEAT								
7.1	Heat as a form of energy								
7.2	Heat flow and its effect								
7.3	The effect of heat on matter					6			
7.4	Application of expansion and contraction of matter								
7.5	Absorbing and giving out heat						3		
7.6	The benefits of heat flow								

Bab	Tajuk Tingkatan 2	Tahun							
1	THE WORLD THROUGH OUR SENSES	04	05	06	07	08	09		
1.1	Sensory organs and their functions								
1.2	Sense of touch								
1.3	Sense of smell								
1.4	Sense of taste								
1.5	Sense of hearing						4		
1.6	Sense of sight								
1.7	Light and sight				6				
1.8	Sound and hearing						4		
1.9	Stimuli and responses in plants					2			
2	NUTRITION								
2.1	Classes of food		4						
2.2	The importance of a balanced diet								
2.3	Digestive system in human	3							
2.4	Absorption of digested food						5		
2.5	Reabsorption of water and defecation								
2.6	Healthy eating habits								
3	BIODIVERSITY								
3.1	Organisms and their classification	7	7						
4	INTERDEPENDENCE AMONG LIVING ORGANISMS AND THE ENVIRONMENT								
4.1	Interdependence among living organisms								
4.3	Interaction between living organisms								
4.3	Food web						6		
4.4	Photosynthesis								
4.5	Conservation and preservation of living organisms								
4.6	Role of man in maintaining the balance in nature	2							
5	WATER AND SOLUTION								
5.1	Physical characteristics of water				8				
5.2	Composition of water								
5.3	Evaporation of water			5					
5.4	Solution and solubility			3					
5.5	Acid and alkali						7		
5.6	Water purification								
5.7	Water supply system					3			
5.8	Preservation of water quality								
6	AIR PESSURE								
6.1	Air pressure						8		
6.2	Application of the principle of air pressure								
7	DYNAMICS								
7.1	Force								
7.2	Measurement of force								
7.3	Application of frictional force			8					
7.4	Application of work								
7.5	Application of power						9		
7.6	The importance of force in life								
8	SUPPORT AND MOVEMENT								
8.1	Support systems in animals						10		
8.2	Support systems in plants								
8.3	Appreciating the support system in living things								
9	STABILITY								
9.1	Stability				2				
9.2	The importance of stability								
10	SIMPLE MACHINE								
10.1	Levers		3		5	7			
10.2	Appreciating the innovative efforts in the design of machines to simplify work								

Bab	Tajuk Tingkatan 3	Tahun							
1	RESPIRATION	04	05	06	07	08	09		
1.1	Human breathing mechanism		5						
1.2	Transport of oxygen in the human body			4					
1.3	Importance of a healthy respiratory system								
2	BLOOD CIRCULATION AND TRANSPORT								
2.1	Transport system in humans	4							
2.2	Human blood								
2.3	Transport system in plants						11		
3	EXCRETION								
3.1	Human excretion			1			12		
3.2	Human urinary system								
3.3	Excretion in plants					8			
4	REPRODUCTION								
4.1	Sexual and asexual reproduction								
4.2	The male reproductive system								
4.3	The female reproductive system								
4.4	The menstrual cycle								
4.5	Fertilisation and pregnancy								
4.6	The importance of pre-natal care								
4.7	The importance of research in human reproduction								
4.8	Sexual reproductive system of flowering plants								
4.9	Pollination								
4.10	Development of fruits and seeds in plants						13		
4.11	Germination of seeds			6					
4.12	Vegetative reproduction in flowering plants				7				
5	GROWTH								
5.1	The pattern of human growth								
6	LAND AND ITS RESOURCES								
6.1	The various minerals found in the Earth's crust								
6.2	Reactions between metals and non-metals	5							
6.3	Silicon compounds								
6.4	Calcium compounds				3				
6.5	Natural fuel resources and their importance					5			
7	ELECTRICITY								
7.1	Electrostatics								
7.2	Electricity								
7.3	Measuring electricity								
7.4	The relationship between current, voltage and resistance		8			4			
7.5	The parallel and series circuit								
7.6	Current, voltage and resistance in a series circuit				4				
7.7	Current, voltage and resistance in a parallel circuit								
7.8	Magnetism						14		
7.9	Electromagnetism	6							
8	GENERATION OF ELECTRICITY								
8.1	Generation of electrical energy								
8.2	Transformer						15		
8.3	Electricity transmission and distribution system								
8.4	Electrical supply and wiring system at home								
8.5	Cost of electrical energy usage								
8.6	Functions of fuse and earth wire		6						
8.7	Importance of safety precautions in the use of electricity								
8.8	The importance of conserving electricity								
9	STARS AND GALAXIES								
9.1	The Sun								
9.2	The stars and the galaxies in the Universe								
9.3	Thankful for the existence of the Universe as a gift from God								
10	SPACE EXPLORATION								
10.1	Developments in the field of astronomy & space exploration								