KENYA NATIONAL EXAMINATION AND ASSESSMENT PREDICTION SERIES

ENDTERM 2 ASSESSMENT 2025

GRADE 9

INTEGRATED SCIENCE PP2

MARKING SCHEME

QUESTION ONE (20 marks)

Step	Procedure	Observation	Material	
			Separated/Recovered	
1	Initial	A heterogeneous mixture of white powder	N/A	
	Observation of	(maize flour and salt) and small, granular,		
	Mixture	yellowish/brownish particles (sand).		
2	Sieving	What remains on sieve: Larger, gritty	What remains on sieve:	
		particles (sand)	Sand	
		What passes through sieve: Fine white	What passes through	
		powder (maize flour and salt)	sieve: Maize flour and salt	
3	Adding Water	The white powder (maize flour and salt)	Salt (dissolved), Maize	
	and Stirring	mixes with water. Salt dissolves to form a	flour (suspended)	
		clear solution, while maize flour remains	while maize flour remains	
		suspended, making the water cloudy.		
4	Filtration	Filtrate (liquid collected): Cloudy liquid	Filtrate (liquid collected):	
		(water and dissolved salt)	Salt solution	
		Residue (on filter paper): White, pasty	Residue (on filter paper):	
		substance (maize flour)	Maize flour	
5	Evaporation of	What remains in evaporating dish: White	What remains in	
	Filtrate	crystalline solid	evaporating dish: Salt	

- (a) Name the separation technique used in step 2. (1 mark) Sieving
- (b) Name the separation technique used in step 4. (1 mark) Filtration
- (c) What were the three original components of the mixture? (3 marks)
 - 1. Sand
 - 2. Maize flour
 - 3. Salt
- (d) State three basic science skills you applied in this practical. (3 marks)
 - 1. Observation
 - 2. Measuring
 - 3. Recording (or Communicating)
 - 4. Experimenting (or Investigating)
 - 5. Inferring (or Interpreting data)

QUESTION TWO (10 marks)

- (a) **Record your measurements:** (i) Measured volume of water = **60 cm³** (3 marks) (ii) Measured temperature of water = **(e.g., 25)** °C (3 marks) (*The actual temperature will depend on the ambient temperature of the water at the time of the practical. A typical room temperature water reading would be around 20-30°C. For the purpose of providing an answer, a placeholder like '25' is used, but in a real assessment, the student would read the thermometer.)*
- (b) State the SI unit for volume. (1 mark) Cubic meter (m3)
- (c) State the SI unit for temperature. (1 mark) Kelvin (K)
- (d) Name the two main pieces of apparatus you used for measurement in this practical. (2 marks)
 - 1. Measuring cylinder
 - 2. Thermometer