Conservation of Mass Worksheet

Scoring guide · one credit per question · review written work against each rubric

Conservation of Mass

Question 1

Choice (2)

All reactants and products remain within the measured system.

Question 2

The total is 6.0 g + 9.0 g = 15.0 g. The other product has mass 15.0 g − 12.0 g = 3.0 g.

Question 3

The gas carries matter out of the measured flask. If the gas is included, its mass plus the remaining measured mass equals the starting mass.

Question 4

Choice (2)

Chemical change rearranges atoms while preserving their identities.

Comparing Container Records

Question 5

Choice (1)

Some product gas escaped from the open trial and was outside the final measurement.

Question 6

20.0 g − 17.6 g = 2.4 g of gas.

Question 7

Capture the gas without losing material and include its mass with the remaining products. Compare the complete final mass with the starting mass.

Question 8

Choice (2)

Adding the escaped gas to the material remaining in the container restores the full product mass.