MARK IT

Science Mastery

1. Read the question and the student's answer carefully.

2. Use the mark scheme to award the student a number of marks and annotate their answer with suggestions to improve.

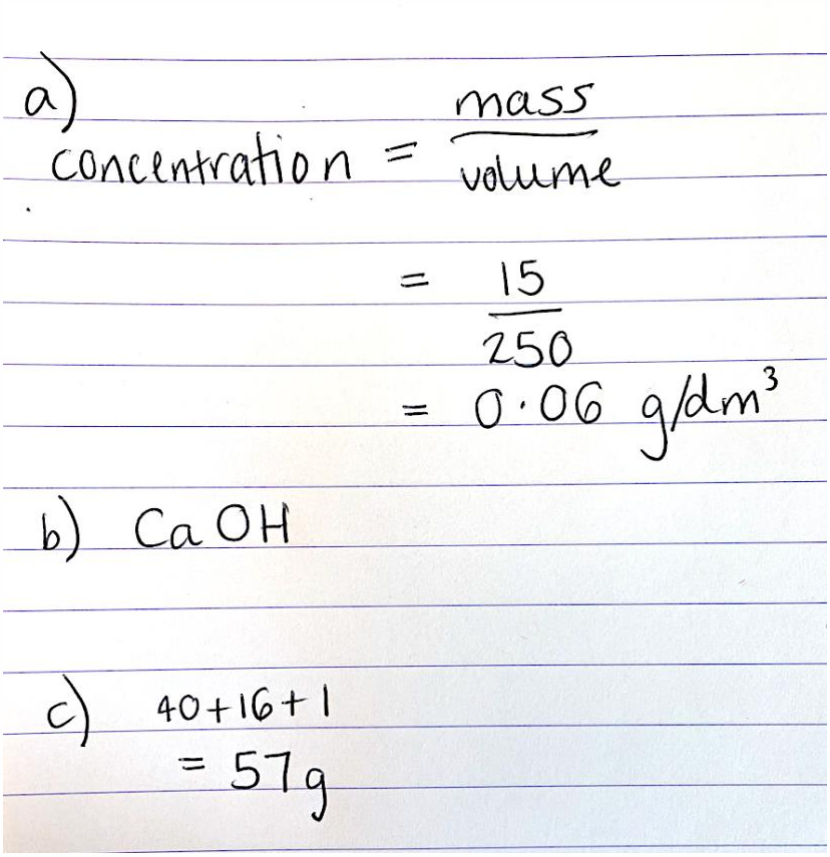
Stretch: Rewrite the answer to show how it should be done!

Question:

15 g of calcium hydroxide is dissolved to make up 250 cm^3 of solution.

a. Calculate the concentration of the solution in g/dm^3. **(3)**
b. State the chemical formula for calcium hydroxide. **(3)**
c. Calculate the relative formula mass of calcium hydroxide. **(2)**

Student answer:



Marks awarded= _____

Mark scheme:

a.

Point	Mark
$\text{Concentration} = \frac{\text{mass}}{\text{volume}}$	1 (equation)
15/0.25	1 (substitution, including conversion to dm^3)
60 g/dm^3	1 (answer)

b. $Ca(OH)_2$

c. Allow error carried forward from Qb, calculating the correct Mr from the incorrect chemical formula.

Allow 2 marks for correct answer with no working shown.

Point	Mark
40 + 2(16+1)	1 (working)
74	1 (answer, **no units**)