Northwest Territories Chemistry 12 (MCH--12)
Practice Test

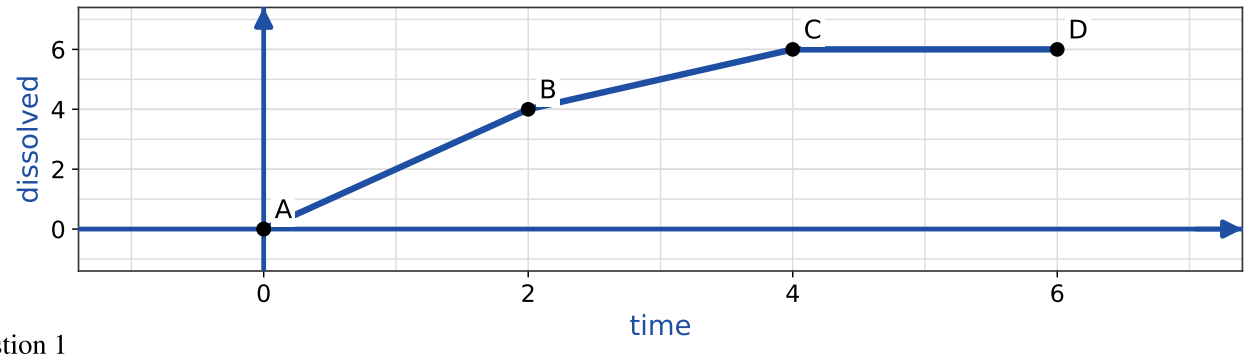
Unit C: Solubility and Acid-Base Equilibria

5 Questions

Original practice test based on the Northwest Territories curriculum. Work through each question, then check your answers at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

© 2026 Brett Robbins. All Rights Reserved.



Question 1

The graph shows the mass of solid dissolved against time. Points are $(0,\ 0)$, $(2,\ 4)$, $(4,\ 6)$, and $(6,\ 6)$. The solution first becomes saturated at about

A) 2 minutes

B) 6 minutes

C) 0 minutes

D) 4 minutes

Understand It with Pulse | Flag a mistake

Question 2

For $CaF_2(s) \rightleftharpoons Ca^{2+}(aq) + 2\,F^-(aq)$, the K_{sp} expression is

A) $K_{sp} = [Ca^{2+}][F^-]$

B) $K_{sp} = \frac{[Ca^{2+}]}{[F^-]^2}$

C) $K_{sp} = [Ca^{2+}][F^-]^2$

D) $K_{sp} = [Ca^{2+}][F^-]^3$

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.



Question 3

If the molar solubility of PbI_2 is s, then $[I^-]$ in a saturated solution is

A) $2s$

B) s

C) s^2

D) $4s$

Understand It with Pulse | Flag a mistake

Question 4

A larger K_{sp} for salts of the same type generally means

A) lower solubility

B) greater solubility

C) a higher pH

D) a lower temperature

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 5

A solution with pH 2 compared to a solution with pH 5 has a hydronium ion concentration greater by a factor of

A) 3

B) 1000

C) 10

D) 100

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

ANSWER KEY

1. D
2. C
3. A
4. B
5. B

© 2026 Brett Robbins. All Rights Reserved.