
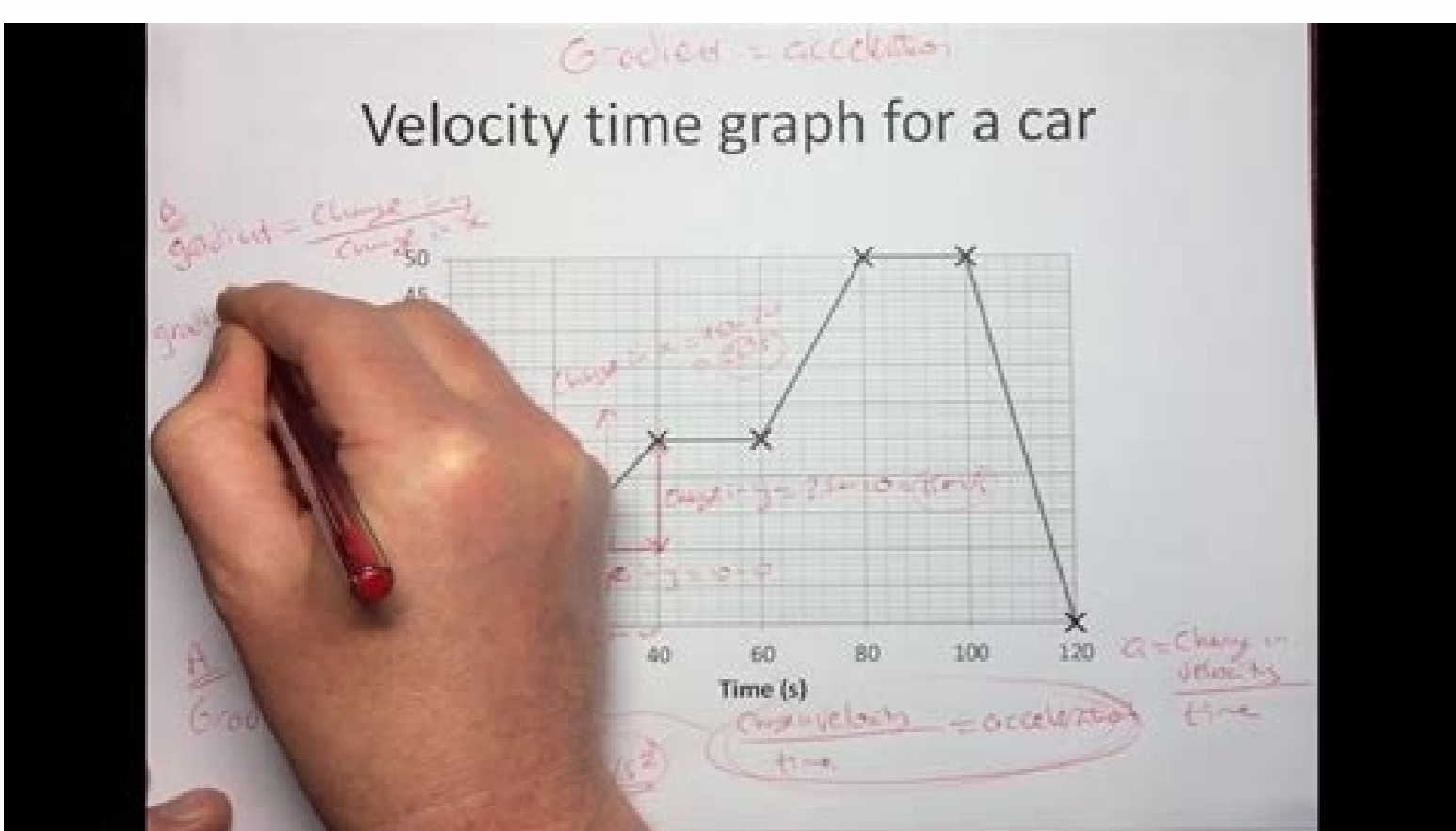


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Chemistry 1.1  
 Solubility Curves and Solutions Review Sheet  
 Solutions Set

1. Define solubility. The maximum amount of solute that dissolves in a fixed quantity of a particular solvent at a specified temperature.

Use the solubility curve below to answer questions 2-15. Be sure to note the units on the axes of the graph.

2. In general, how does temperature affect solubility?  
 The higher the temp, the more solute dissolves.

3.  $KClO_3$  Which compound is least soluble at  $10^\circ C$ ?

4.  $50 g$  How many grams of  $KCl$  can be dissolved in  $100 g$  of water at  $80^\circ C$ ?

5.  $40 g$  How many grams of  $NaCl$  can be dissolved in  $100 g$  of water at  $90^\circ C$ ?

6. about 60 g At  $80^\circ C$ , how much  $KNO_3$  can be dissolved in  $100 g$  of water?

7.  $NaCl$  Which compound shows the least amount of change in solubility from  $0^\circ C$  to  $100^\circ C$ ?

8. unsaturated At  $30^\circ C$ ,  $50 g$  of  $NaNO_3$  is dissolved in  $100 g$  of water. Is this solution saturated or unsaturated?

9. D At  $60^\circ C$ ,  $72 g$  of  $NaCl$  are dissolved in  $100 g$  of water. This solution is considered to be:  
 A) saturated B) unsaturated C) supersaturated D) saturated with some left undissolved

10. 30 g A saturated solution of  $KClO_3$  is formed from one hundred grams of water. If the saturated solution is cooled from  $90^\circ C$  to  $50^\circ C$ , how many grams of precipitate are formed?

11. 20 g A saturated solution of  $NaCl$  is formed from one hundred grams of water. If the saturated solution is cooled from  $90^\circ C$  to  $50^\circ C$ , how many grams of precipitate are formed?

12. K Which compounds show a decrease in solubility from  $10^\circ C$  to  $80^\circ C$ ?  
 A) potassium chloride B) sodium sulfate C) sodium nitrate D) ammonia E) both B and D

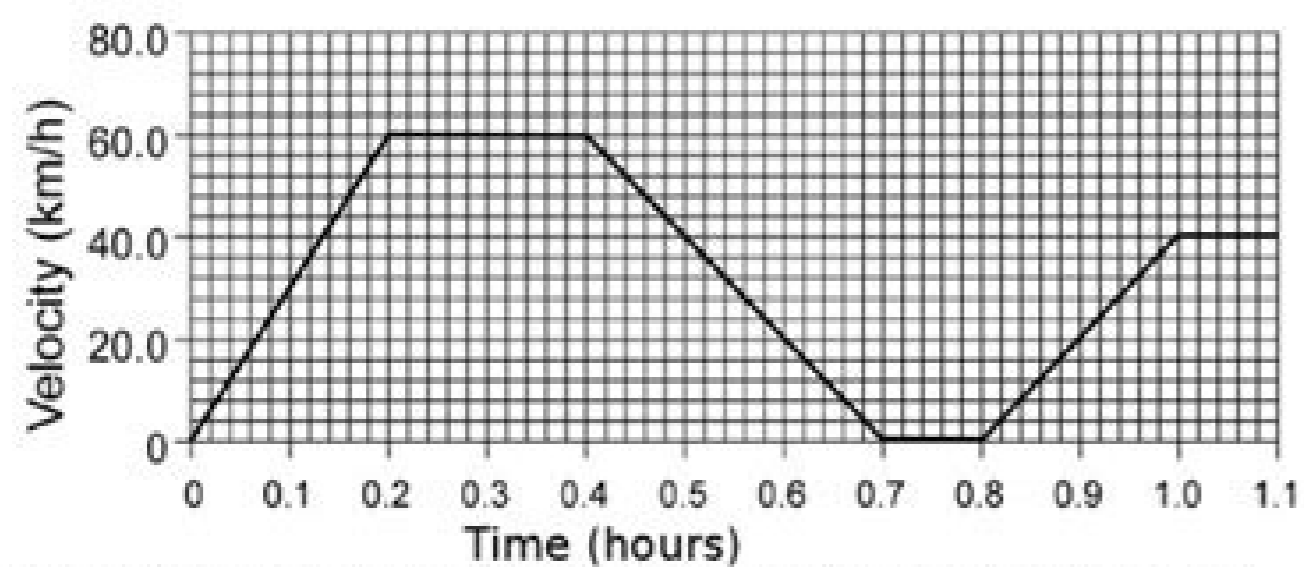
13. C Which compound is the most soluble at  $10^\circ C$ ?  
 A)  $CaCl_2 \cdot 2H_2O$  B)  $NaCl$  C)  $KCl$  D)  $KClO_3$  E)  $NaNO_3$

14. C A chemist adds  $120$  grams of  $KCl$  into a test tube which contains  $100$  grams of water. The temperature of the water is  $80^\circ C$ . How much of the solute will be left undissolved at the bottom of the test tube?  
 A)  $50$  grams B)  $60$  grams C)  $70$  grams D)  $80$  grams E)  $90$  grams

Section: \_\_\_\_\_ Name: \_\_\_\_\_ Date: \_\_\_\_\_

Velocity-Time Graph Worksheet

Part I:



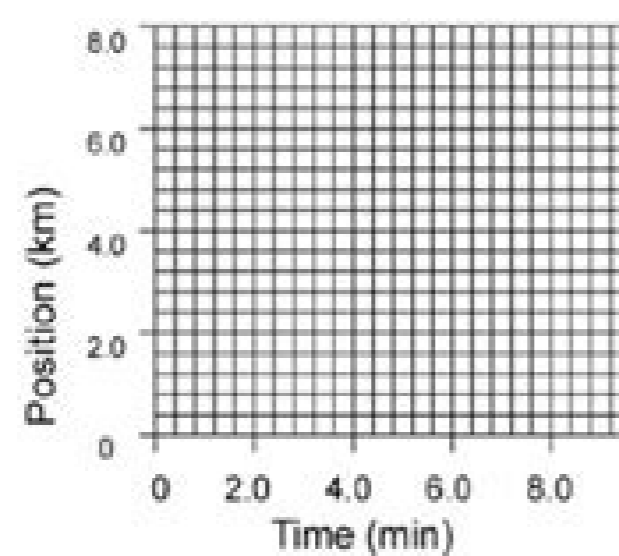
1. Above is a velocity-time graph of a moving car. Answer the following questions using the graph.

- \_\_\_ a. At what time was the car stopped?
- \_\_\_ b. At what time did the car have the greatest velocity?
- \_\_\_ c. What was the greatest velocity?
- \_\_\_ d. At what time(s) was the car accelerating?
- \_\_\_ e. How fast was the car going at 1.0h?
- \_\_\_ f. What is the acceleration at 0.9 hr?

Solve these problems by graphical analysis.

2. The following table shows the positions of two cars at the times indicated. Graph the data for each car on one set of axes and compute the velocity of each car.

TIME (min)	Position	
	CAR A (km)	CAR B (km)
0	0	2
2	2	3.5
4	4	5
6	6	6.5
8	8	8





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