

Name _____
Date Due _____
Hand In With Corrections by _____

Chemistry 12
Worksheet 4-2
Bronsted Acids and Equilibria

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1. Write the formula for a *proton* (1 mark) _____
2. Write the formula for a *hydrated proton* (1 mark) _____
3. Write the formula for a *hydronium* ion(1 mark) _____
4. Give the *Arrhenius* definition of an *acid*(1 mark) _____

5. Give the *Arrhenius* definition of a *base* (1 mark) _____

6. Give the *Bronsted* definition of an *acid* (1 mark) _____

7. Give the *Bronsted* definition of a *base* (1 mark) _____

8. Given the equation: $\text{HCO}_3^- + \text{H}_2\text{S} \rightleftharpoons \text{H}_2\text{CO}_3 + \text{HS}^-$
 - a) The **acid** on the left side is (1 mark) _____
 - b) The **base** on the left side is (1 mark) _____
 - c) The **acid** on the right side is (1 mark) _____
 - d) The **base** on the right side is (1 mark) _____

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