

# Acids & Bases HOMEWORK

## Lesson 1

1. Provide the name for each of the strong acids listed below. Provide the formula for each of the strong bases listed below.

- ~~HBr~~ **hydrobromic acid**
- ~~HCl~~ **hydrochloric acid**
- ~~HNO<sub>3</sub>~~ **nitric acid**
- ~~H<sub>2</sub>SO<sub>4</sub>~~ **sulfuric acid**
- ~~Strontium hydroxide~~ **LiOH**
- ~~potassium hydroxide~~ **KOH**
- ~~Sodium hydroxide~~ **NaOH**
- ~~calcium hydroxide~~ **Ca(OH)<sub>2</sub>**
- ~~ammonium hydroxide~~ **LiOH**

~~HClO<sub>4</sub> is a STRONG acid & it does not completely dissociate in water.~~

2. Of the acids and bases listed below, circle the ones that completely dissociate in water.

**HCl**

~~HF~~

~~H<sub>2</sub>SO<sub>4</sub>~~

~~Mg(OH)<sub>2</sub>~~

**NaOH**

**NaHCO<sub>3</sub>**

~~NaOH~~

**Na<sub>2</sub>CO<sub>3</sub>**

3. What is the formula for hydronium? **H<sub>3</sub>O<sup>+</sup>**

4.  $\text{Cu}_2\text{CO}_3$  will react with water and lose a  $\text{H}^+$  ion in the process.

- Write a balanced equation for this reaction:  **$\text{Cu}_2\text{CO}_3 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{CO}_3 + \text{Cu}_2\text{CO}_3$**
- Would you expect a large or small equilibrium constant for this reaction? **small, because  $\text{Cu}_2\text{CO}_3$  is a weak acid.**
- Would you define  $\text{Cu}_2\text{CO}_3$  as a proton donor or a proton acceptor? **proton donor, because it is losing a  $\text{H}^+$  ion.**
- In your written equation, is  $\text{Cu}_2\text{CO}_3$  acting as a Brønsted-Lowry acid or a Brønsted-Lowry base? **Brønsted-Lowry acid, because it is losing a proton.**
- Identify the conjugate base of  $\text{Cu}_2\text{CO}_3$ :  **$\text{Cu}_2\text{CO}_3$**
- Identify  $\text{Cu}_2\text{CO}_3$  as polyprotic, amphoteric, or neither. **polyprotic, because it contains multiple H's.**

5.  $\text{F}^-$  will react with water and gain a  $\text{H}^+$  ion in the process.

- Write a balanced equation for this reaction:  **$\text{F}^- + \text{H}_2\text{O} \rightarrow \text{HF} + \text{OH}^-$**
- Would you expect a large or small equilibrium constant for this reaction? **small, because  $\text{F}^-$  is a weak base.**
- Would you define  $\text{F}^-$  as a proton donor or a proton acceptor? **proton acceptor, because it is gaining a  $\text{H}^+$  ion.**
- In your written equation, is  $\text{F}^-$  acting as a Brønsted-Lowry acid or a Brønsted-Lowry base? **Brønsted-Lowry base, because it is gaining a proton.**
- Identify the conjugate acid of  $\text{F}^-$ : **HF**
- Identify  $\text{F}^-$  as polyprotic, amphoteric, or neither. **neither**

6.  $\text{HSO}_4^-$  will react with water and lose a  $\text{H}^+$  ion in the process.

- Write a balanced equation for this reaction:  **$\text{HSO}_4^- + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_4 + \text{SO}_4^{2-}$**
- Would you expect a large or small equilibrium constant for this reaction? **small, because  $\text{HSO}_4^-$  is a weak acid.**
- Would you define  $\text{HSO}_4^-$  as a proton donor or a proton acceptor? **proton donor, because it is losing a  $\text{H}^+$  ion.**
- In your written equation, is  $\text{HSO}_4^-$  acting as a Brønsted-Lowry acid or a Brønsted-Lowry base? **Brønsted-Lowry acid, because it is losing a proton.**
- Identify the conjugate base of  $\text{HSO}_4^-$ :  **$\text{SO}_4^{2-}$**
- Identify  $\text{HSO}_4^-$  as polyprotic, amphoteric, or neither. **amphoteric, because it has a negative charge (and will like to have a proton) and it has an H.**

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web jul 21 2022 select the safety equipment like lanyards and deceleration devices that will support you at the height you re working from consider your body height the fall distance sags in your harness and other equipment and the length of your lanyard

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web 2 3 1 lack of safe work procedures 43 of the cases studied did not have proper safe work procedures in place there are procedures required for carrying out any work safely such as planning for a specific job task training workers on a step by step work process of how a job can be done in as safe a manner as possible and emergency

working at heights safe work australia - Nov 25 2021

web working at heights working at heights is a high risk activity and a leading cause of death and serious injury in australia as a person conducting a business or undertaking you have a duty to keep workers and workplaces safe from the risks of working at height

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web this checklist provides the basic requirements for working safely at heights occupiers and employers should ensure and maintain a safe working environment for working at heights

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web sub contractor must establish safe work procedures to minimise the risk safe work procedures are step by step measures of doing or carrying out work safely the procedures must include the measures to be taken to safeguard persons in the event of an emergency the safe work procedure must be communicated to the worker

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web feb 1 2023 working at height has become safer since their introduction in 2005 the wsh regulations have been effective at reducing fatalities in 2003 04 the last full year of statistics available prior to the introduction of the regulations there were 67 fatal accidents 4 and 1 107 major injuries as a result of falling from a height accounting for 28 per

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web the work at height regulations in singapore aim to provide a safe working environment for workers who are required to work at height these regulations are mandatory and apply to all companies and workers involved in the construction industry in singapore the ministry of manpower mom is responsible for enforcing these regulations

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web hazardous work at height wsh can commence training requirements for workers supervisors and other wsh personnel to ensure effective conduct and oversight of work performed at heights and implementation of safety measures while working on roof near fragile surfaces and by using the industrial rope access system

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web the law the purpose of the work at height regulations 2005 is to prevent death and injury caused by a fall from height if you are an employer or you control work at height for example facilities managers or building owners who may contract others to work at height the regulations apply to you employers and those in control of any work at

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web by following these 10 work at height safety tips employers and workers can significantly reduce the risks associated with working at heights in singapore remember compliance with the workplace safety and health act is essential to ensure a safe and healthy working environment

26 july 2013 ministry of manpower - Mar 10 2023

web safe work procedures and permit to work system for work at heights 4 safe work procedures and permit to work system should be implemented to ensure work at heights is planned and carried out safely and systematically under the wsh work at heights regulations 2013 the permit to work system will be required to be implemented for all

**preventing falls from heights** - Jul 14 2023

web oct 18 2023 establish safe work procedures for various work at height wsh activities provide individual fall arrest system e g safety harness for employees working at height educate employees on the proper use of fall arrest devices e g securing to a

**introduction to working at height safely hse** - Aug 03 2022

web what to do and not do when working at height when working at height you should do as much work as possible from the ground ensure workers can get safely to and from where they work

**working at height safety procedures hsewatch** - Mar 30 2022

web july 4 2022 by ubongeh dangers of working at height working at height is a high risk job that exposes the workers to series of dangers these dangers include mostly falling from height and falling objects these two 2 hazards of working at height could be fatal if not properly managed

**working at height 5 safety considerations kee safety** - Sep 16 2023

web jun 4 2020 whatever your industry might be the chances of needing a worker to access a hazardous area such as a roof to conduct maintenance are always there read about the top safety considerations to ensure that workers stay safe as they work at height working at heights code of practice

working at height labour administration and inspection - Jul 02 2022

web safe systems for working at height are not just important in the construction sector watch on working at height remains one of the biggest causes of fatalities and major injuries common cases include falls from roofs ladders and through fragile surfaces

*staying safe while working at height safetyculture* - Apr 30 2022

web oct 23 2023 according to the occupational safety and health administration osha workers must be provided proper fall protection if they are at elevations of four feet in general industry workplaces five feet in shipyards six feet in the construction industry and eight feet in longshoring operations

**unsafe and safe practices when working at height tal** - Jun 13 2023

web aug 4 2022 working at height is a high risk activity with falls from height accounting for more than 20 of all fatal injuries in 2021 the ministry of manpower put up a facebook post on 4 august 2022 calling out unsafe work at height practices which it found during inspections view examples of unsafe practices to avoid and safe practices

*technical advisory for working at height eversafe* - Dec 07 2022

web over time the safety culture in the workplace will evolve so that every person takes it as his responsibility to ensure a safe and healthy workplace it is also very important for persons who are working at height to be competently trained in the work to be done aware of the risks involved and follow the required safe work procedures which