

## Section 12.1

### OBJECTIVE 1

Write complete balanced redox reactions that are indicated.

1. \_\_\_\_\_
  - a. \_\_\_\_\_
    - (a)  $\text{Mg} + \text{HCl}$
    - (b)  $\text{Fe} + \text{HCl}$
    - (c)  $\text{Zn} + \text{HCl}$
    - (d)  $\text{Al} + \text{HCl}$
    - (e)  $\text{Cu} + \text{HCl}$
    - (f)  $\text{Ag} + \text{HCl}$
    - (g)  $\text{Ni} + \text{HCl}$
    - (h)  $\text{Sn} + \text{HCl}$
    - (i)  $\text{Pb} + \text{HCl}$
    - (j)  $\text{Fe} + \text{H}_2\text{SO}_4$
    - (k)  $\text{Zn} + \text{H}_2\text{SO}_4$
    - (l)  $\text{Al} + \text{H}_2\text{SO}_4$
    - (m)  $\text{Cu} + \text{H}_2\text{SO}_4$
    - (n)  $\text{Ag} + \text{H}_2\text{SO}_4$
    - (o)  $\text{Ni} + \text{H}_2\text{SO}_4$
    - (p)  $\text{Sn} + \text{H}_2\text{SO}_4$
    - (q)  $\text{Pb} + \text{H}_2\text{SO}_4$
  - b. \_\_\_\_\_
    - (a)  $\text{Fe} + \text{HNO}_3$
    - (b)  $\text{Zn} + \text{HNO}_3$
    - (c)  $\text{Al} + \text{HNO}_3$
    - (d)  $\text{Cu} + \text{HNO}_3$
    - (e)  $\text{Ag} + \text{HNO}_3$
    - (f)  $\text{Ni} + \text{HNO}_3$
    - (g)  $\text{Sn} + \text{HNO}_3$
    - (h)  $\text{Pb} + \text{HNO}_3$
  - c. \_\_\_\_\_
    - (a)  $\text{Fe} + \text{H}_2\text{SO}_4$
    - (b)  $\text{Zn} + \text{H}_2\text{SO}_4$
    - (c)  $\text{Al} + \text{H}_2\text{SO}_4$
    - (d)  $\text{Cu} + \text{H}_2\text{SO}_4$
    - (e)  $\text{Ag} + \text{H}_2\text{SO}_4$
    - (f)  $\text{Ni} + \text{H}_2\text{SO}_4$
    - (g)  $\text{Sn} + \text{H}_2\text{SO}_4$
    - (h)  $\text{Pb} + \text{H}_2\text{SO}_4$
2. \_\_\_\_\_
  - a. \_\_\_\_\_
    - (a)  $\text{Fe} + \text{HNO}_3$
    - (b)  $\text{Zn} + \text{HNO}_3$
    - (c)  $\text{Al} + \text{HNO}_3$
    - (d)  $\text{Cu} + \text{HNO}_3$
    - (e)  $\text{Ag} + \text{HNO}_3$
    - (f)  $\text{Ni} + \text{HNO}_3$
    - (g)  $\text{Sn} + \text{HNO}_3$
    - (h)  $\text{Pb} + \text{HNO}_3$
  - b. \_\_\_\_\_
    - (a)  $\text{Fe} + \text{H}_2\text{SO}_4$
    - (b)  $\text{Zn} + \text{H}_2\text{SO}_4$
    - (c)  $\text{Al} + \text{H}_2\text{SO}_4$
    - (d)  $\text{Cu} + \text{H}_2\text{SO}_4$
    - (e)  $\text{Ag} + \text{H}_2\text{SO}_4$
    - (f)  $\text{Ni} + \text{H}_2\text{SO}_4$
    - (g)  $\text{Sn} + \text{H}_2\text{SO}_4$
    - (h)  $\text{Pb} + \text{H}_2\text{SO}_4$
3. \_\_\_\_\_
  - a. \_\_\_\_\_
    - (a)  $\text{Fe} + \text{HNO}_3$
    - (b)  $\text{Zn} + \text{HNO}_3$
    - (c)  $\text{Al} + \text{HNO}_3$
    - (d)  $\text{Cu} + \text{HNO}_3$
    - (e)  $\text{Ag} + \text{HNO}_3$
    - (f)  $\text{Ni} + \text{HNO}_3$
    - (g)  $\text{Sn} + \text{HNO}_3$
    - (h)  $\text{Pb} + \text{HNO}_3$
  - b. \_\_\_\_\_
    - (a)  $\text{Fe} + \text{H}_2\text{SO}_4$
    - (b)  $\text{Zn} + \text{H}_2\text{SO}_4$
    - (c)  $\text{Al} + \text{H}_2\text{SO}_4$
    - (d)  $\text{Cu} + \text{H}_2\text{SO}_4$
    - (e)  $\text{Ag} + \text{H}_2\text{SO}_4$
    - (f)  $\text{Ni} + \text{H}_2\text{SO}_4$
    - (g)  $\text{Sn} + \text{H}_2\text{SO}_4$
    - (h)  $\text{Pb} + \text{H}_2\text{SO}_4$

4. Write the net ionic equation for the following balanced equation:



a. Balance the equation:



b. Write the net ionic equation for the reaction.

5. \_\_\_\_\_
 

- a. \_\_\_\_\_
  - (a)  $\text{Fe} + \text{HNO}_3$
  - (b)  $\text{Zn} + \text{HNO}_3$
  - (c)  $\text{Al} + \text{HNO}_3$
  - (d)  $\text{Cu} + \text{HNO}_3$
  - (e)  $\text{Ag} + \text{HNO}_3$
  - (f)  $\text{Ni} + \text{HNO}_3$
  - (g)  $\text{Sn} + \text{HNO}_3$
  - (h)  $\text{Pb} + \text{HNO}_3$
- b. \_\_\_\_\_
  - (a)  $\text{Fe} + \text{H}_2\text{SO}_4$
  - (b)  $\text{Zn} + \text{H}_2\text{SO}_4$
  - (c)  $\text{Al} + \text{H}_2\text{SO}_4$
  - (d)  $\text{Cu} + \text{H}_2\text{SO}_4$
  - (e)  $\text{Ag} + \text{H}_2\text{SO}_4$
  - (f)  $\text{Ni} + \text{H}_2\text{SO}_4$
  - (g)  $\text{Sn} + \text{H}_2\text{SO}_4$
  - (h)  $\text{Pb} + \text{H}_2\text{SO}_4$

6. \_\_\_\_\_
 

- a. \_\_\_\_\_
  - (a)  $\text{Fe} + \text{HNO}_3$
  - (b)  $\text{Zn} + \text{HNO}_3$
  - (c)  $\text{Al} + \text{HNO}_3$
  - (d)  $\text{Cu} + \text{HNO}_3$
  - (e)  $\text{Ag} + \text{HNO}_3$
  - (f)  $\text{Ni} + \text{HNO}_3$
  - (g)  $\text{Sn} + \text{HNO}_3$
  - (h)  $\text{Pb} + \text{HNO}_3$
- b. \_\_\_\_\_
  - (a)  $\text{Fe} + \text{H}_2\text{SO}_4$
  - (b)  $\text{Zn} + \text{H}_2\text{SO}_4$
  - (c)  $\text{Al} + \text{H}_2\text{SO}_4$
  - (d)  $\text{Cu} + \text{H}_2\text{SO}_4$
  - (e)  $\text{Ag} + \text{H}_2\text{SO}_4$
  - (f)  $\text{Ni} + \text{H}_2\text{SO}_4$
  - (g)  $\text{Sn} + \text{H}_2\text{SO}_4$
  - (h)  $\text{Pb} + \text{H}_2\text{SO}_4$

7. \_\_\_\_\_
 

- a. \_\_\_\_\_
  - (a)  $\text{Fe} + \text{HNO}_3$
  - (b)  $\text{Zn} + \text{HNO}_3$
  - (c)  $\text{Al} + \text{HNO}_3$
  - (d)  $\text{Cu} + \text{HNO}_3$
  - (e)  $\text{Ag} + \text{HNO}_3$
  - (f)  $\text{Ni} + \text{HNO}_3$
  - (g)  $\text{Sn} + \text{HNO}_3$
  - (h)  $\text{Pb} + \text{HNO}_3$
- b. \_\_\_\_\_
  - (a)  $\text{Fe} + \text{H}_2\text{SO}_4$
  - (b)  $\text{Zn} + \text{H}_2\text{SO}_4$
  - (c)  $\text{Al} + \text{H}_2\text{SO}_4$
  - (d)  $\text{Cu} + \text{H}_2\text{SO}_4$
  - (e)  $\text{Ag} + \text{H}_2\text{SO}_4$
  - (f)  $\text{Ni} + \text{H}_2\text{SO}_4$
  - (g)  $\text{Sn} + \text{H}_2\text{SO}_4$
  - (h)  $\text{Pb} + \text{H}_2\text{SO}_4$

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**L Darling-Hammond**



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web world renowned performer world war ii spy and activist are few of the titles used to describe josephine baker one of the most successful african american performers in french history baker s career illustrates the ways entertainers can use their platforms to change the world

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web josephine baker actress zou zou josephine baker was born freda josephine mcdonald in st louis mo in 1906 to carrie mcdonald a laundress and eddie carson a musician her early life hinted at her future career she first danced for the public on the streets of st louis for nickels and dimes later she became a chorus girl on the st

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web there are quite a few studies on the grain refinement and mechanical properties of aisi 4145 steel therefore in this study the mechanical characteristics related to the grain growth behavior of aisi 4145 steel have been investigated

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web characteristics aisi sae 4145h grade is a low alloy steel containing chromium and molybdenum as strengthening agents the steel has good fatigue strength and impact toughness in low temperature weldability and machinability applications

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web tensile strength 115 234  $\sigma_b$  mpa yield strength 23  $\sigma_0.2$  mpa elongation 65  $\psi$   $\psi_{akv}$  akv j hbs 123 321 hrc 30 aisi

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4145 mechanical properties tensile strength 231 231  $\sigma$  b mpa yield strength 154  $\sigma$  0 2 mpa elongation 56 65  $\psi$   $\psi$  akv akv j hbs 235 268 hrc 30 aisi 4145 heat treatment regime

*aisi 4145h modified a low alloy steel with hardenability* - Mar 16 2023

web it has improved hardenability and is more commonly used in the high strength condition with minimum yield 125 ksi 110 ksi applications aisi 4145h is a low alloy steel suitable for downhole drilling tools such as subs x overs drill collars pup joints and fishing tools

**aisi 4145 alloy steel uns g41450 azom com** - Sep 10 2022

web in comparison with carbon steels alloy steels are a lot more responsive to mechanical and heat treatments alloy steels can be subjected to unique melting and deoxidization processes for specific kind of applications the following datasheet provides an overview of aisi 4145 alloy steel

*aisi 4140 alloy steel uns g41400 azom com* - Apr 05 2022

web dec 18 2019 aisi 4140 alloy steel can be tempered at 205 to 649 c 400 to 1200 f depending upon the desired hardness level the hardness of the steel can be increased if it has a lower tempering temperature for example a tensile strength of 225 ksi can be achieved by tempering at 316 c 600 f and tensile strength of 130 ksi can be

sae aisi 4145 scm445 g41450 cr mo steel makeitfrom com - Dec 13 2022

web may 30 2020 shear strength 360 mpa 52 x 103 psi tensile strength ultimate uts 580 mpa 85 x 103 psi tensile strength yield proof 360 mpa 53 x 103 psi thermal properties latent heat of fusion 250 j g maximum temperature mechanical 420 c 790 f melting completion liquidus 1460 c 2650 f

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web aisi 4145h has improved hardenability and is more commonly used in the high strength condition with min 110 ksi yield we welcome enquiries for aisi 4145 4145h steel contact our sales office for further details aisi 4145 4145h

**steel aisi 4145 modified liberty steel group** - Jun 19 2023

web the specification defines the requirements for aisi 4145 hot rolled crmo bars hardened and tempered to meet either 110ksi 120ksi or 125ksi minimum yield strength steel manufacture steel is manufactured via electric arc furnace followed by ladle refining and vacuum degassing and is either cast into bottom

**material data sheet aisi sae 4145 tel email** - Feb 15 2023

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similar to aisi 4140 but with a higher carbon content 4145 is more popular in larger diameters due to its increased strength and hardenability

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