

- 1 $\text{Cu}^{2+}|\text{Cu} = +0.34 \text{ V}$, $\text{H}^{+}|\text{H}_2 = 0 \text{ V}$; $\text{Zn}^{2+}|\text{Zn} = -0.76 \text{ V}$
Placing Cu(s) in 0.2 M HCl(aq) , H_2 bubbles ...
- A should form
 - B should not form
 - C further information required
- 2 $\text{Cu}^{2+}|\text{Cu} = +0.34 \text{ V}$, $\text{H}^{+}|\text{H}_2 = 0 \text{ V}$; $\text{Zn}^{2+}|\text{Zn} = -0.76 \text{ V}$
Placing Zn(s) in 0.2 M HCl(aq) , H_2 bubbles ...
- A should form
 - B should not form
 - C further information required
- 3 $\text{Cu}^{2+}|\text{Cu} = +0.34 \text{ V}$, $\text{H}^{+}|\text{H}_2 = 0 \text{ V}$; $\text{Zn}^{2+}|\text{Zn} = -0.76 \text{ V}$
Placing Zn(s) in $\text{CuSO}_4(\text{aq})$, ...
- A H_2 bubbles should form
 - B no reaction should occur
 - C Cu(s) should deposit on the Zn(s)
 - D further information required
 - E
- 4 $\text{Cu}^{2+}|\text{Cu} = +0.34 \text{ V}$, $\text{H}^{+}|\text{H}_2 = 0 \text{ V}$; $\text{Zn}^{2+}|\text{Zn} = -0.76 \text{ V}$
Placing Zn(s) coated with Cu(s) in 0.2 M HCl(aq) , compared to H_2 bubble formation with pure Zn , H_2 bubbles should appear ...
- A more slowly
 - B at the same rate
 - C more quickly