

## Worksheet: d- and f-Block Elements

IB · Class 12 · Chemistry · 5 questions · 12 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 12

**Q1.** Write the electronic configurations of Cr ( $Z = 24$ ) and Cu ( $Z = 29$ ). [2 marks]

---

---

---

**Q2.** Why are transition metal ions coloured? [2 marks]

---

---

---

**Q3.** Balance in acidic medium:  $\text{Cr}_2\text{O}_7^{2-} + \text{Fe}^{2+} \rightarrow \text{Cr}^{3+} + \text{Fe}^{3+}$ . [3 marks]

---

---

---

**Q4.** Why is Zn not considered a transition metal? [2 marks]

---

---

---

**Q5.** What is lanthanoid contraction and give two consequences. [3 marks]

---

---

---