

## Unit 3 - Periodicity

### Trends in physical properties

#### Effective Nuclear Charge

- The nuclear charge of an atom is given by its atomic number. (e.g. Oxygen is +8)
- The outer electrons of the atom **do not experience the full attraction** of the nuclear charge because they are **shielded from the nucleus because of the repulsion by the inner electrons** and so the effective nuclear charge is lesser than the nuclear charge.
- Nuclear charge increases across a period, but remains constant down a group

#### Atomic Radius

- the distance from the nucleus to the outermost electrons of an atom.
- Atomic radius decreases across a period, as attraction between the nucleus and outermost electrons increases, and increases down a group, as the number of shells increases

#### Ionic Radius

- Cations: As there are less electrons than protons, the outer shell is lost and the ionic radius of a cation is lesser than the atomic radius of the atom.
  - e.g. Na has a atomic radius of  $186 \times 10^{-12}$  while  $\text{Na}^+$  has a ionic radius of  $98 \times 10^{-12}$
- Anions: As there are more electrons than protons, there is more electron repulsion and less attraction, so the ionic radius is more than the atomic radius of the atom.
  - e.g. Cl has an atomic radius of  $99 \times 10^{-12}$ , but  $\text{Cl}^-$  has an ionic radius of  $181 \times 10^{-12}$

#### Ionization Energy

- The first ionization energy of an element is the energy required to remove one mole of electrons from one mole of gaseous atoms in their ground state.
- Increases across a period as atomic bonds are stronger, and decreases down a group as there are more outshells and attraction is weaker.

#### Exceptions

- Groups 2 and 3
  - Elements of group 3 have a lower lower ionization energy than elements of Group 2.
  - Elements of Group 3 have the electron configuration of  $s^2p^1$ , which means that the electron removed is from the p orbital, which is unpaired, making it easier to remove.
  - However, elements of Group 2 have an electron configuration of  $s^2$ , which is a complete orbital and when an electron is removed, it is removed from this orbital, and it is relatively harder to remove the electron.
- Groups 15 and 16
  - Elements of Group 16 have a lower ionization energy compared to elements of Group 15.

# Study Guide Unit 3 Periodicity Answer

**James Tanton**



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web summary iron deficiency is one of the leading contributors to the global burden of disease and particularly affects children premenopausal women and people in low income and middle income countries anaemia is one of many consequences of iron deficiency and clinical and functional impairments can occur in the absence of anaemia

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web jul 6 2011 this case study was limited to biomarkers for the detection of iron deficiency and determination of its severity iron biomarkers are customarily used in the following settings 1 clinical evaluations a

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web dec 15 2021 this autobiographical case report describes the development of iron deficiency anemia ida with chronic use of omeprazole the patient was a 35 year old male with a history of essential hypertension and gerd who was taking

omeprazole 40 mg daily for 3 years for the management of reflux symptoms he developed some mild

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web aug 7 2023 iron is an essential component of the hemoglobin molecule the most common cause of anemia worldwide is iron deficiency which results in microcytic and hypochromic red cells on the peripheral smear several causes of iron deficiency vary based on age gender and socioeconomic status

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web jan 4 2022 overview iron deficiency anemia is a common type of anemia a condition in which blood lacks adequate healthy red blood cells red blood cells carry oxygen to the body's tissues as the name implies iron deficiency anemia is due to insufficient iron

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web jul 20 2022 iron deficiency anemia ida has reached epidemic proportions in developing countries and has become a major global public health problem affecting mainly 0-5 year old children and young women of childbearing age especially during pregnancy iron deficiency can lead to life threatening loss of red

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web sep 8 2006 overview teaching notes answer key materials media objectives the structure of hemoglobin and the role played by iron in the transport of oxygen the means by which iron is transported and stored in the body the incidence and causes of ida the red blood cell indices and how they are used to characterize anemia

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web jul 10 2018 iron deficiency is associated with multiple pathologies including anaemia and defective organ function and formation reference prentice mendoza and pereira 5 iron deficiency in the absence of anaemia is somewhat subtler in its manifestations than other micronutrient deficiencies despite being a major contributor to ill health premature

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web symptoms of iron deficiency anemia are related to decreased oxygen delivery to the entire body and may include being pale or having yellow/sallow skin unexplained fatigue or lack of energy shortness of breath or chest pain especially with activity unexplained generalized weakness rapid heartbeat pounding or whooshing in the ears

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web patient overview m j is a 25 year old african american female presenting to her pcp with complaints of fatigue weakness and shortness of breath with minimal activity her friends and family have told her she appears pale and combined with her recent symptoms she has decided to get checked out

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web iron deficiency and anaemia is common in this population citation 1 management of women with the symptom of hmb and associated iron deficiency with or without anaemia requires dual therapy interventions directed at the cause of the hmb and treatment designed to correct the iron deficiency and anaemia

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web anaemia affects roughly a third of the world s population half the cases are due to iron deficiency it is a major and global public health problem that affects maternal and child mortality physical performance and referral to health care professionals children aged 0 5 years women of childbearing age and pregnant women are particularly at risk several

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web jan 3 2019 according to the global burden of disease study 2016 iron deficiency anemia is 1 of the 5 leading causes of years lived with disability burden and is the first cause in women 1 adopting the world health organization recommended cutoff for anemia hb 13 g dl in males 12 g dl in females 11g dl during pregnancy a worldwide

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web jun 7 2018 we conducted a retrospective case control study to investigate both the effects of iron deficiency and the reduction of haemoglobin level on hba 1c measurement in subjects with iron deficiency anaemia laboratory data were collected from a sample of subjects consecutively assessed from 1990 2016 in the italian hospital of desio lombardy

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and iron deficiency anemia ida is usually considered to be a synonym of iron

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web it is the most common nutritional disorder worldwide and accounts for approximately one half of anemia cases 1 2 iron deficiency anemia can result from inadequate iron intake

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information mark 5 a 8 05 8 1 8 correct answer with or without working gains 2 marks allow 1 mark for 8 0 or 8 10 allow 35 100 x 23 million for 1 mark if no answer or incorrect answer

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web 4 b ii what type of cell is cell draw a ring around the correct answer 1 mark an egg cell a skin cell a sperm cell 4 b iii use the correct answer from the box to complete the sentence 1 mark cell membrane cytoplasm nucleus