



برعاية معالي وزير التربية والتعليم

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وتوجيهات مساعد الوزير لشئون تطوير المناهج التعليمية  
والمشرف على الإدارة المركزية لتطوير المناهج  
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WEEK

(3)



الصف الثالث الإعدادي

Home work

الفصل  
الدراسي الثاني

لجنة الأعداد والمراجعة  
خبراء مكتب تنمية مادة العلوم

اشراف علمي  
مستشار العلوم  
د / عزيزة رجب خليفة

**Lesson one: Chemical reactions****Oxidation and reduction reactions****Question one****Put ( ✓ ) or ( X )**

- 1- Oxidation and reduction reactions occur separately from each other (.....)
- 2- Oxidation is a chemical process in which an element loses one or more electrons (.....)
- 3- The chlorine atom turns into a chloride ion when it loses an electron from its outer energy levels (.....)
- 4- The transformation of  $Fe^{+2}$  into  $Fe^{+3}$  It is considered a reduction process (.....)

**Question two:****Complete the following sentences with suitable words:**

- 1- When sodium reacts with chlorine, the sodium undergoes into ..... Process.
- 2- The oxidizing agent is ..... one or more electrons, while the reducing agent is .....
- 3- The conversion of magnesium into a magnesium ion is considered as ..... process while when oxygen is converted into an oxygen ion is considered as ..... Process.
- 4- When the matter combines with hydrogen this process is known as ..... process, while losing of oxygen is known as ..... process.

**Question three: -****Give reasons for the following: -**

- 1- Oxidation and reduction are two concurrent processes.
- 2- Most metals act as reducing agents, while most nonmetals act as oxidizing agents