

LEVEL THREE

UNIT ONE

INFORMATION

TECHNOLOGY

BY TEACHER:

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Information technology

THE HISTORY OF COMPUTERS SB P 6 + AB P6 EX 1

Calculation	when you use maths to work out an answer	الحساب
Computer chip	a very small piece found inside every computer	رقاقة الحاسوب
Floppy disk:	a small square piece of plastic that was used to store information from computers	القرص المرن
PC (Personal computer	a computer designed for one person to use	الكمبيوتر الشخصي
Program	a set of instructions enabling a computer to function	برنامج
Smartphone	a mobile phone that connects to the internet	الهواتف الذكية
World Wide Web	all the information started by computers through the internet	الإنترنت

The history of computers.(p6)

When you are using a computer, think about the technology that is needed for it to work. People have been using types of computers for thousands of years. A metal machine was found on the seabed in Greece that was more than 2,000 years old. It is believed that this was the first ever computer.

عند استخدامك الحاسوب فكر بالتكنولوجيا التي يحتاجها لكي يعمل. وتستخدم الناس انواع من الحواسيب منذ آلاف السنين ووجدت آلة معدنية في قعر بحر اليونان عمرها اكثر من 2000 عام ويعتقد بأنها اول كمبيوتر.

In the 1940s, technology had developed enough for inventors to make the first generation of modern computers; one such model was so large that it needed a room that was 167 square meters to accommodate it. During that decade, scientists in England developed the first computer program. It took 25 minutes to complete one calculation. In 1958 CE, the computer chip was developed.

في فترة الاربعينيات من القرن العشرين تطورت التكنولوجيا بما يكفي لتسمح للمخترعين بصناعة الجيل الأول من الحواسيب ومثال عليها أن احد النماذج احتاج الى غرفة تبلغ مساحتها 167 م مربع لتستوعبه. وخلال ذلك العقد قام العلماء من انجلترا بتطوير اول برنامج حاسوبي. وكان يستغرق 25 دقيقة لأكمال عملية حسابية واحدة. وفي عام 1958 م تم تطوير رقاقة الحاسوب.

The first computer game was produced in 1962CE, followed two years later by the computer mouse. In 1971 CE, the floppy disk was invented, which meant that information could be shared between computers. The first PC (personal computer) was produced in 1974CE, so people could buy computers to use at home.

انتجت اول لعبة حاسوب في عام 1962م وبعدها بعامين انتجت الفارة. في عام 1971م تم اختراع القرص المرن واصبح ممكن تبادل المعلومات بين الحواسيب بواسطته. اول كمبيوتر شخصي أنتج عام 1974م لذا أصبح بإمكان الناس شراء الحواسيب لأستخدامها في المنزل.

In 1983 CE, people could buy a laptop for the first time. Then, in 1990 CE, the British scientist Tim Berners-Lee developed the World Wide Web. It was not until 2007 CE that the first Smartphone appeared. Today most people used their mobile phones every day.

في عام 1983م استطاع الناس شراء الكمبيوتر المحمول لأول مرة. ثم في عام 1990م قام العالم البريطاني تيم بيرنرز لي بتطوير شبكة الأنترنت. ولم يكن حتى عام 2007م حتى ظهر اول جيل من الهواتف الذكية. اليوم معظم الناس تستخدم هواتفها النقالة يوميا.

What will happen in the future? You can already buy watches which can do the same as mobile phones. Scientists have also developed glasses that are capable of doing even more than this. Life is going to see further changes in computer technology. It is likely that all aspects of everyday life will rely on a computer program, from how we travel to how our homes are heated.

ماذا سوف يحصل في المستقبل؟ تستطيع حاليا شراء ساعات والتي تقوم بعمل الهواتف الخليوية. وطور العلماء ايضا نظارات لديها القدرة على القيام بأكثر من ذلك. وستشهد الحياة تغييرات أكثر في تكنولوجيا الحاسوب من طريقة سفرنا وحتى كيف يتم تدفئة بيوتنا.

SB 7**Comprehension****4- Listen to and read the article again and answer the questions.**

- 1 Where was the first ever computer found?
- 2 What information in the text shows that the first modern computers were very large?
- 3 List the invention that were completed between 1958 CE and 1975 CE.
- 4 How do you think computer technology will develop further in the future? How far do you agree with the article?
- 5 We rely more and more on computer technology. How far do you agree that this is a positive development?

Answers

- 1- It was found on the seabed in Greece.
- 2- one such model was so large it needed a room that was 167 square metres to put it in.
- 3- 1) In 1958CE, the computer chip was developed.
- 2) The first computer game was produced in 1962CE.
- 3) Followed two years later by the computer mouse.
- 4) In 1971CE, the floppy disk was invented.
- 5) The first Pc was produced in 1974CE .
- 4- According to the text, everything in our life will rely on computer. But I don't agree with the article because I don't think that all aspects of our daily lives will rely on a computer program. Because this would results in too many problems if the computers crashed.
- 5- I agree that computers have become an essential factor in every aspect of our daily life from education to medicine to industry to many other things.

ADDITIONAL QUESTIONS:

- 1- What do you think about when you are using a computer?
- 2- When have people been using types of computers?
- 3- What have people been using for thousands of years?
- 4- Where was the first over computer found?
- 5- When was the first over computer found/made/invented?
- 6- When was the first generation of modern computers made/ invented?
- 7- What did the first modern computer need?
- 8- Write down the sentence which indicates that the size of the first generation of the modern computers was so large.
- 9- According to the text. Describe the first modern computer?
- 10- How size of the room that is needed for the first computer?
- 11- When did scientists develop the first computer program?
- 12- Where did scientists develop the first computer program?
- 13- Quote the sentence which indicates that the first computer program was very slow.
- 14- list the inventions that were completed between 1958CE and 1974CE.

ANSWERS

- 1- When you are using a computer, think about the technology that is needed for it to work.
- 2- People have been using types of computers for thousands of years.
- 3- People have been using types of computers for thousands of years.
- 4- It was found on the seabed in Greece.
- 5- It was found for more than 2,000 years old.
- 6- In 1940.
- 7- It needed a room that was 167 square metres to put it in.
- 8- One such model was so large it needed a room that was 167 square metres to put it in.
- 9- It was so large. It needed a room that was 167 square metres to put it in.
- 10- It needed a room that was 167 square metres to put it in.
- 11- Scientists developed the first computer program in 1940
- 12- In England
- 13- It took 25 minutes to complete one calculation.
- 14- 1) In 1958CE, the computer chip was developed

Using technology in class

Young people love learning, but they like learning even more if they are presented with information in an interesting and challenging way. Today, I am going to give a talk about how you can use technology in Jordanian classroom.

يحب الشباب التعلم خاصة اذا قدم لهم بطريقة ممتعة ومثيرة للتحدي. اليوم سوف القي محاضرة حول كيفية استخدام التكنولوجيا في غرف الصفوف الأردنية.

Here are some ideas: Many classrooms now use a whiteboard as a computer screen. As a consequence, teachers can show websites on the board in front of the class. Teachers can then use the internet to show educational programs , play educational games, music, recordings of languages, and so on.

واليكم بعض الأفكار: كثير من الصفوف تستخدم اللوح المغناطيسي كشاشة حاسوب ويستطيع المدرسين عرض المواقع الإلكترونية على اللوح امام الطلبة. يستطيع المدرسين استخدام الانترنت لعرض البرامج التعليمية ولعب الألعاب الإلكترونية وتشغيل الموسيقى والتسجيلات اللغوية والخ.....

In some countries, tablet computers are available for students to use in class. Therefore, students can use the tablets to do tasks such as showing photographs, researching information, recording interviews and creating diagrams. Tablet is ideal for pair in group work.

في بعض البلدان الكمبيوتر اللوحي (تابلت) اصبح متوفرا للطلاب ليستخدموه في الصف. لذلك يمكن للطلاب استخدام الكمبيوتر اللوحي لحل الواجبات مثل عرض الصور والبحث عن المعلومات وتسجيل المقابلات وعمل الرسوم البانية. الكمبيوتر اللوحي هو جهاز مثالي للعمل الثنائي الجماعي.

Teachers can perhaps ask their students to start writing a blog (an online diary). Either about their own lives or as if they were someone famous. They can also create a website, so for examples they can post work, photos and messages.

وربما يستطيع المدرسين الطلب من الطلاب كتابة مدونة الكترونية اما عن حياتهم الخاصة او التخيل بأنهم اشخاص مشهورين. يمكنهم ايضا عمل مواقع الكترونية وعلى سبيل المثال نشر الصور والرسائل فيها.

Most young people communicate through social media by which they send each other photos and messages via the internet. Some students like to send messages that are under 140 letters for anyone to read. Teachers can ask students to summarize information about what they have learnt in class in the same way. If students learn to summarize quickly, they will be able to use this skill in the future.

معظم الشباب يتواصلون عبر وسائل التواصل الاجتماعية وغيرها يرسلون لبعضهم الصور والرسائل عبر الأنترنت. بعض الطلاب يحبون ارسال رسائل اقل من 140 حرف لأي شخص ليقرونها. يستطيع المدرسين الطلب من الطلاب تلخيص المعلومات عن اللذي تعلموه في الصف بنفس الطريقة. واذا تعلم الطلاب مهارة التلخيص بسرعة سيتمكنون من استخدام هذه المهارة في المستقبل.

We all like to send emails, don't we? Emails exchanges are very useful in the classroom. Teachers can ask students to email what they have learnt to students of a similar age at another school. They could even email students in another country. As a result, students can then share information and help each other with tasks.

جميعا نحب ارسال الايميلات, اليس كذلك؟ تبادل الايميلات مفيد جدا في الصف. ويستطيع المدرسين الطلب من الطلاب ارسال ما تعلموه الكترونيا الى طلاب من نفس العمر في مدرسة اخرى. ويستطيعون حتى الارسال لطلاب في بلد اخر. وبالنتيجة يستطيع الطلاب وقتها مشاركة المعلومات ومساعدة بعضهم بالواجبات.

Another way of communicating with other schools is through talking to people over the computer. Most computers have cameras, so you can also see the people you are talking to. In this way students who are studying English in Jordan can see what students in England are doing in the classroom while they are speaking to them. You can also use this system to invite guest speakers to give talks over a computer. For examples, scientist or teachers from another country could give a lesson to the class. If you had this type of lesson, the students would be very excited.

وطريقة اخرى للتواصل مع المدارس هي عبر التحدث الى الناس عبر الحاسوب. معظم الحواسيب تمتلك كاميرات لتستطيع رؤية الناس اللذين تتحدث اليهم. بهذه الطريقة الطلبة اللذين يدرسون الانجليزية في الأردن يستطيعون رؤية ما يفعله الطلبة في بريطانيا في صفوفهم اثناء الحديث اليهم. وتستطيع ايضا استخدام هذا النظام لدعوة ضيف يعطي محاضرات عبر الحاسوب. على سبيل المثال: عالم او مدرس من دولة اخرى يستطيع اعطاء محاضرة للصف. اذا كان لديك هذا النوع من الدروس فالطلبة سيتحمسون كثيرا.

Students often use computers at home if they have them. Students can use social media on their computers to help them with their studies, including asking other student to check and compare their work, asking questions and sharing ideas. The teacher must be part of the group, too, to monitor what is happening.

الطلبة غالبا يستخدمون الحواسيب في منازلهم اذا كانوا يملكونها. ويستخدم الطلبة وسائل التواصل الاجتماعية من حواسيبهم لمساعدتهم في دراستهم عبر الطلب من الطلبة الآخرين تفقد ومقارنة اعمالهم وطرح الأسئلة ومشاركة الأفكار. وعلى المدرس أن يكون جزء من المجموعة ايضا ليشراف على ما يحدث.

QUESTIONS

- 1-What do young people love?
- 2- How do young people like learning even more?
- 3- learning should be presented to young people with information that has two features?
- 4- What is the writer going to talk about?
- 5- What do Many classrooms now use?
- 6- How can teacher use a whiteboard as a computer screen?
- 7- What can teachers show on the board in front of the class?
- 8- Where can teachers show websites?
- 9-Why can teachers use the internet in the classrooms?
- 10-Mention two educational materials by using internet?
- 11-Who can show websites in front of the class?
- 12- Quote the sentence which indicates that a lot of classrooms are using a whiteboard these days?
- 13-Quote the sentence which shows that teachers can display websites on the board in front of the class?
- 14- Mention two tasks that students can do when they use the tablets?
- 15-The writer thinks that tablets are ideal for pair and group work. Explain this statement and justify your answer?

ANSWERS

- 1- Young people love learning.
- 2- Young people love learning, but they like learning even more if they are presented with information in an interesting and challenging way.
- 3-interesting and challenging
- 4- He is going to give a talk about how you can use technology in Jordanian classrooms.
- a whiteboard as a computer screen. 5- many classroom now use
- 6- teachers can show websites on the board in front of the class. Teachers can then use the internet to show educational programs, play educational games, music, recordings of languages, and so on.
- 7-they can show educational programs, play educational games, music, recordings of languages, and so on.
- 8- teachers can show websites on the board in front of the class
- 9- to show educational programs, play educational games, music, recordings of languages, and so on.
- 10- educational programs and play educational games
- 11-teachers
- 12- many classroom now use a whiteboard as a computer screen
- 13- As a consequence, teachers can show websites on the board in front of the class.
- 14- students can use the tablets to do tasks such as showing photographs, researching information, recording interviews and creating diagrams.
- 15- because students can do many tasks such as showing photographs, researching information, recording interviews and creating diagrams. I think this will help them in learning.

The Internet of Things انترنت الأشياء

A What is the 'internet of Things'?

Everyone knows that the internet connects people, but now it does more than that – it connects objects, too. These days, computers often communicate with each other, for example, your TV automatically downloads your favourite TV show, or your 'sat nav' system tells you where you are. This is known as the 'Internet of Things', and there's a lot more to come.

يعرف الجميع بأن الانترنت يربط الناس ببعضها ولكن الآن أصبح يفعل أكثر من ذلك- أصبح يربط الأشياء أيضا. هذه الأيام أصبحت الحواسيب غالبا تتواصل ببعضها على سبيل المثال سيحمل تلفازك آليا برنامجك المفضل ونظام الملاحة سيخبرك أين أنت بالتحديد. ويعرف هذا بـ انترنت الأشياء وهناك المزيد ليحدث.

B An easy life!

In just a few years' time, experts say that billions of machines, will be connected to each other and to the internet. As a consequence, computers will increasingly run our lives for us. For example, your fridge will know when you need more milk and add it to your online shopping list, your windows will close if it is likely to rain; your watch will record your heart rate and email your doctor; and your sofa will tell you when you need to stand up and get some exercise!

في غضون سنوات قليلة يقول الخبراء أن مليارات الآلات سترتبط ببعضها وبالانترنت. وبالتالي ستدير الحواسيب حياتنا عنا بشكل متزايد. على سبيل المثال ستخبرك الثلاجة عندما تحتاج الى المزيد من الحليب وستضيفه الى لائحة التسوق الالكتروني خاصتك وستعلق نافذتك اذا كان المطر محتملا وساعتك ستسجل معدل نبضات قلبك وترسلها الى طبيبك وكتبتك ستخبرك عندما يجب عليك التحرك بأن تنهض وتمارس الرياضة.

C An frightening future.

Many people are excited about the 'Internet of Things'. For them, a dream is coming true. They say that our lives will be easier and more comfortable. However, **others** are not so sure. They want to keep control of their own lives and their own things. In addition, they wonder what would happen if criminals managed to access their passwords and security settings. The dream could easily become a nightmare!

الكثير من الناس متحمسين لفكرة انترنت الأشياء. بالنسبة لهم أنه حلم يصبح حقيقة. يقولون بأن حياتهم ستصبح اسهل واكثر راحة. ولكن الآخرون ليسوا متأكدين. يريدون أن يبقوا مسيطرين على حياتهم وأشياءهم. بالإضافة الى ذلك يتساءلون ماذا سوف يحدث اذا استطاع المجرمين الوصول الى كلماتهم السرية واعدادات الأمان. الحلم بسهولة يمكن أن يتحول الى كابوس.

SB 8

اسئلة واجابات الكتاب

11- Read the article once more, then answer the questions.

1- What does the 'Internet of Things' mean? Give an example from the text.

It means the connection between different computers for example, TV downloads and sat nav.

2- Find two words in the first paragraph which have the same meaning as 'speak to'.
Communicate

3- How will the 'Internet of Things' help you to keep fit, according to the text?
your watch will record your heart rate and email your doctor; and your sofa will tell you when you need to stand up and get some exercise!

4- What does the word 'others' in **bold** in the third paragraph refer to?
other people with different opinion.

5- According to the text, why are some people excited about the future? Why are others worried?
Some people are excited about the future because our lives will be easier and more comfortable. But others are worried They want to keep control of their own lives and their own things.

6- In your opinion, is the 'Internet of Things' exciting or worrying? Why?
In my opinion, it is excited because everything will be easy and comfortable for me

ADDITIONAL QUESTIONS

اسئلة اضافية

- 1- What is the meaning of 'Internet of Things'?
- 2- What does everyone know?
- 3- there are many thing that can be done by the internet of things. Write down two of them.
- 4-What does experts say?
- 5- experts say that billions of machines, will be connected to each other and to the internet. When?
- 6-Which will increasingly run our lives ?
- 7-Quote the sentence which indicates that computers will run our lives?
- 8-According to the text, your future fridge can do two things. Write them down.
- 9-watches in the future can help people in two ways. write down these two ways.
- 10-In the future, sofa will give people two pieces of advice. Write down them.
- 11- Experts say that computers will increasingly run our lives. Give two examples
- 12- Write down the sentences which indicates that a lot of people are satisfied with the " internet of things"
- 13-Mny people who are excited about the internet of things believe that our lives will see two positive effects. Write them down.
- 14- quote the sentence which indicates that not all people sure about the benefits of the "internet of things"
- 16- Criminals can commit two crimes by using the "internet of things. Write down them.

ANSWERS

- 1- It means the connection between different computers
- 2-Everyone knows that the internet connects people and objects .
- 3- Your TV automatically downloads your favourite TV show, or your 'sat nav' system tells you where you are.
- 4- Experts say that billions of machines, will be connected to each other and to the internet.
- 5- In just a few years' time
- 6-Computers
- 7- Computers will increasingly run our lives for us.
- 8- Your fridge will know when you need more milk and add it to your online shopping list
- 9- Your watch will record your heart rate and email your doctor
- 10- Sofa will tell people when they need to stand up and get some exercise!
- 11- Your fridge will know when you need more milk and add it to your online shopping list, your windows will close if it is likely to rain; your watch will record your heart rate and email your doctor; and your sofa will tell you when you need to stand up and get some exercise!
- 12- Many people are excited about the 'Internet of Things'.
- 13- Our lives will be easier and more comfortable.
- 14- However, others are not so sure.
- 15- They want to keep control of their own lives and their own things. In addition, they wonder what would happen if criminals managed to access their passwords and security settings.
- 16- Criminals managed to access their passwords and security settings.