KEY WORDS

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| --- | --- | --- |
| **عملية حسابية** | **a way of using numbers in order to find out an amount, price or value** | **calculation** |
| **رقاقة حاسوب** | **a small piece inside a computer which stores information via an electric current** | **computer chip** |
| **قرص مرن** | **a flexible, removable magnetic disk that stores computer information** | **floppy disk** |
| **الحاسوب الشخصي** | **an abbreviation for personal computer, a computer that is used by one person at a time** | **PC** |
| **برنامج** | **a set of instructions enabling acomputer to function;** | **program** |
| **الهواتف الذكية** | **a mobile phone with advanced computing technology** | **smartphone** |
| **الشبكة العنكبوتية** | **an information system, known as the Internet, which allows documents to be connected to other documents,**  **and for people to search for information by moving from one document to another** | **World Wide Web** |

**The first paragraph**

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.

عندما تستخدم كمبيوتر , فكر في التكنولوجيا اللازمة لعمله . استخدم الناس أنواع مختلفة من الحواسيب لآلاف السنين . وجدت آلة معدنية في قاع البحر في اليونان قبل أكثر من 2,000 سنة . ويعتقد أن هذا هو أول جهاز كمبيوتر.

**1.** Where was the oldest computer found?

**2.** How old is the world’s oldest computer?

**3**. What is the most important thing you should think about when using a computer?

**4**. According to the text, what does a computer need to work / function?

**5**. **Quote the sentence which shows the place and date of finding the first ever computer.**

**6**. What does the underlined words refer to?

**The second paragraph**

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 metres 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 الأربعينيات من القرن العشرين، تطورت التكنولوجيا بما فيه الكفاية للمخترعين ليصنعوا الجيل الأول من الحواسيب الحديثة. كان هذا النموذج من الحواسيب كبيرا جداً لدرجة أنه كان يحتاج إلى غرفة بمساحة 167 متراً مربعا ليوضع فيها . خلال ذلك العقد ، طور العلماء في انجلترا أول برنامج حاسوب . استغرق الأمر 25 دقيقة لإتمام عملية حسابية واحدة .و في عام 1958م تم تطوير شريحة الكمبيوتر.

1. Quote the sentence which indicates that the first computer program was developed in the 1940s.?

2. Where was the first computer program invented?

3. The first modern computers were very slow. Write down a piece of evidence from the text.?

4. Quote the sentence which shows that the first modern computers were very large

5. What does the underlined words refer to?

6. How long did the first computer program take to complete one calculation?

**The third paragraph**

The first computer game was produced in 1962 CE, 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 for the first time. The first PC (personal computer) was produced in 1974 CE, so people could buy computers to use at home.

وقد أنتجت أول لعبة كمبيوتر في عام 1962 م وبعد عامين (1964) تبعها إنتاج فأرة الكمبيوتر ، في عام 1971م ثم اخترع القرص المرن والذي يعني بأن المعلومات أصبح بالإمكان مشاركتها بين أجهزة الكمبيوتر لأول مرة ثم إنتاج أول جهاز كمبيوتر (الحاسوب الشخصي) في عام 1974م ، وهكذا استطاع الناس شراء أجهزة كمبيوتر للاستخدام في المنزل.

1. There were many inventions that were completed between 1962 CE and 1974 CE. *Write down two of these inventions*.

2. Scientists have made an invention that made it easier to share information between computers. Write it down.

3. What was the invention that allowed people to use computers at home?

4. Scientists have invented two things related to computers during the 1960s. Write them down.

5. When could people buy computers to use at home?

6. Find a word which means **"a computer that is used by one person at a time".**

**7.** Find an **invention** which means **"** **a** **small square piece of plastic that was used to store information from computers"**.

**The fourth paragraph**

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. However, it was not until 2007 CE that the first smartphones appeared. Today, most people use **their** mobile phones every day.

**في 1983 تمكن الناس من شراء كمبيوتر محمول للمرة الأولى . وبعد ذلك، في 1990 قام العالم البريطاني تيم بيرنرز لي بتطوير شبكة الويب العالمية . لم يكن هناك ظهور لأول الهواتف الذكية حتى, 2007 اليوم معظم الناس يستخدمون هواتفهم المحمولة كل يوم.**

**1.** There are many inventions between the 1980s and 2000s. Write down two of them.

**2.** There are two futuristic technologies which are already available. Write them down

**3**. In which year could people buy a laptop for the first time?

**4.** Who developed the world wide web?

**5.** When did the first smartphones appear?

**6**. What was the main contribution that the British scientist Tim Berners Lee had introduced to computer technology?

**7**. Quote the sentence which shows the date of developing the World Wide Web.

**8.** What do the letters " **WWW** " refer to?

**The fifth paragraph**

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 in the future 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 سيحدث في المستقبل ؟ يمكنك الآن بالفعل شراء ساعات و التي يمكنها أن تعمل نفس عمل الهواتف النقالة. وقد طور العلماء أيضاً نظارات و التي يمكنها القيام بمثل هذا وأكثر.

ستشهد الحياة في المستقبل المزيد من التغيرات في تكنولوجيا الحاسوب . فمن المحتمل أن جميع جوانب الحياة اليومية سوف تعتمد على برامج الحاسوب ، من الكيفية التي نسافر بها إلى الكيفية التي يتم بها تدفأ بها بيوتنا.

1. Scientists have developed two things that can do the same as mobile phones. Write them down.

2. Write down the sentence which shows that humans’ life will depend on computers very much in the future.

3. Find a word in the paragraph which means **"a set of instructions enabling a computer to** **function ".**

**4.** Find a word in the text which means “**a way of using numbers in order to find out amount**”.

5. What does the ***phrasal verb*** " **rely on** "mean?

**Comprehension**

**1.** Where was the oldest computer found?

**2.** How old is the world’s oldest computer?

**3.** When was the first generation of modern computers invented?

**4.** Write down the sentence which indicates that the first modern computer was huge.

**5.** Quote the sentence which indicates that the first computer program was developed in the 1940s.

**6.** Where was the first computer program invented?

**7.** The first modern computers were very slow. Write down a piece of evidence from the text.

**8.** Scientists have invented two things related to computers during the 1960s. Write them down.

**9.** Scientists have made an invention that fastens computer processes. Write it down.

**10.** Scientists have made an invention that made it easier to share information between computers. Write it down.

**11.** What was the invention that allowed people to use computers at home?

**12.** There are many inventions between the 1950s and 1970s. Write down two of them.

**13.** When has the first laptop been available to customers for the first time?

**14.** Who developed the World Wide Web?

**15.** There are many inventions between the 1980s and 2000s. Write down two of them.

**16.** There are two futuristic technologies which are already available. Write them down.

**17.** Write down the sentence which shows that humans’ life will depend on computers very much in the future.

**18.** Find a word in the text which means “**a way of using numbers in order to find out amount**”.

**19.** What does the underlined word “**program**” mean?

**20.** What does the underlined pronoun “**their**” in the third paragraph, refer to?

**21.** What does the underlined pronoun “**it**” in the second paragraph, refer to?

**using technology in classroom**

استخدام التكنولوجيا في الصف

|  |  |  |
| --- | --- | --- |
| **مدونة** | **a regularly updated personal website or web page, usually written in an informal style** | **blog** |
| **تبادل الرسائل**  **الالكترونية** | **a series of emails between two or more people, each email generally a reply to the previous one email** | **email exchange** |
| **مواقع التواصل**  **الاجتماعي** | **social interaction between people and communities on websites or blogs** | **social media** |
| **كمبيوتر لوحي** | **a mobile computer, with a touch screen, processor and battery all in one unit** | **tablet computer** |
| **اللوح الابيض / المغناطيسي** | **a touch screen computer program that enables you to draw sketches, write and present ideas and talks to colleagues or students** | **whiteboard** |
| **يرسل/ينشر** | **to put a message or document on the Internet so that other people can see it** | **post** |

**The first paragraph**

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 classrooms.

Here are some ideas:

الشباب يحبون التعلم، إلا أنهم يحبون التعلم أكثر لو قدمت لهم المعلومات بطريقة مثيرة للاهتمام و فيها تحدي . اليوم سألقي محاضرة عن كيفية استخدام التكنولوجيا في الفصول الدراسية الأردنية .

فيما يلي بعض الافكار:-

1. There are two characteristics of the ways of the information that make students like learning. Write them down.

2. What does the underlined pronoun refer to?

**The second paragraph**.

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 programmes, play educational games, music, recordings of languages, and so on.

العديد من الفصول الدراسية الآن تستخدم السبورة البيضاء الرقمية كشاشة كمبيوتر . ونتيجة لذلك يمكن للمعلمين أن يعرضوا المواقع الالكترونية على اللوح أمام طلاب الصف وهكذا يمكن للمعلمين استخدام الإنترنت لعرض البرامج التعليمية وتشغيل الألعاب التعليمية والموسيقى وتسجيلات اللغات وما شابه ذلك.

1. How can the teachers show websites in front of the class?

2. Write down the sentence that shows that tablet computers are suitable for different types of class work.

3. Teachers can use the Internet to show many educational programmes. Write down two these programmes.

4. Quote the sentence which indicates that a lot of classrooms now use a whiteboard like a computer monitor.

**The third paragraph**

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. Tablets are ideal for pair and group work.

في بعض الدول , الحواسيب اللوحية متوفرة للطلاب لاستخدامها في الصف . لذلك , يمكن للطلاب استخدامها للقيام بمهام مثل عرض الصور معلومات البحث , تسجيل المقابلات و إنشاء الرسومات البيانية . الحواسيب اللوحية مثالية للعمل الثنائي أو الجماعي **.**

**1.** Teachers can ask their students to use their tablets for certain tasks. Write down two of these tasks.

2. Write down the sentence that shows that tablet computers are suitable for different types of class work.

3. Quote the sentence which indicates that not in all countries, tablet computers are obtainable \ accessible for students to use in class.

4. Tablets are perfect and preferable for two kinds of work. Write down these two kinds.

**The fourth paragraph**

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 for the classroom. Students can contribute to the website, so for example they can post work, photos and messages.

قد يطلب المعلمون من طلابهم البدء بكتابة مدونة ) مذكرة على الانترنت ( إما عن حياتهم أو اعتبار أنفسهم أشخاص مشهورين . بإمكانهم أيضا إنشاء موقعا الكترونيا لصفهم . الطلاب يمكنهم المساهمة في الموقع , لذلك يمكنهم مثلا نشر إعمالهم و صورهم و رسائلهم .

1. Students can send many things to the website. Write down two of them

2. Teachers can possibly invite **their** students to start writing an online diary that contains two main pieces of information. What are they?

3. What does the underlined pronoun (their) refer to?

4. What does the underlined pronoun (their) refer to?

**The fifth paragraph**

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 summarise information about what they have learnt in class in the same way. If students learn to summarise quickly, they will be able to use this skill in future.

غالبية الشباب يتواصلون من خلال مواقع التواصل الاجتماعي , من خلالها يرسلون صور لبعضهم البعض عبر الانترنت . بعض الطلاب يفضلون إرسال رسائل تكون اقل من 140 حرف لأي شخص لقراءتها . قد يطلب المعلمون من طلابهم تلخيص ما تعلموه في الصف بنفس الطريقة . إذا تعلم الطلاب التلخيص بسرعة فأنهم سيكونون قادرين على استخدام هذه المهارة في المستقبل.

1. How do most young people communicate with each other?

2. Write down the sentence which indicates that students can send short messages through social media.

3. Teachers can improve their students summarising skills. How can they do that?

**The sixth paragraph**

We all like to send emails, don’t we? Email 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.

نحب جميعا إرسال الايميلات , أليس كذلك ؟ تبادل الايميلات مفيد جدا في الغرفة الصفية . يمكن للمعلمين إن يطلبوا من طلابهم إرسال ما تعلموه الى طلاب من نفس أعمارهم في مدرسة أخرى . حتى بإمكانهم مراسلة طلاب في دولة أخرى . نتيجة لذلك , يمكن للطلاب فيما بعد التشارك في المعلومات و مساعدة بعضهم البعض في المهمات الموكلة إليهم .

1. There are two ways to communicate with students in other schools. Write them down.

2. Students can communicate with students in other schools through computers. How can they do that?

3. Communicating with other students through computers is very useful for students. Write down two ways of getting that benefit.

4. How can emails be useful \ beneficial in the classroom? 5. What does the underlined pronoun they refer to?

**The seventh paragraph**

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 example, scientists 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.

طريقة أخرى للتواصل مع المدارس الأخرى هي التحدث مع الناس من خلال الحاسوب . معظم الحواسيب لها كاميرات , لذلك بإمكانك أن ترى الناس الذين تتحدث معهم . بهذه الطريقة , الطلاب الذين يتعلمون الانجليزية في الأردن بإمكانهم رؤية ما يفعله الطلاب الانجليز في الصف إثناء التحدث معهم . بإمكانك أيضا استخدام هذا النظام لدعوة المتحدثين الضيوف للحديث عبر الحاسوب . مثلا , العلماء أو المعلمون من دولةأخرى يمكنهم إعطاء درس للصف . إذا عندك هذا النوع من الدروس , فان الطلاب سيكونون في غاية السعادة .

1. Why can you see the people you are talking to?

2. According to the text, whom can you invite to give a talk over a computer?

3. How would students feel when quest speakers from another country could give a lesson to the class?

**The eighth paragraph**

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 students 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.

Thank you for listening. Does anyone have any questions?

الطلاب غالبا يستخدمون الحواسيب في المنازل أن توفرت . الطلاب يمكنهم استخدام مواقع التواصل الاجتماعي في حواسيبهم لمساعدتهم في دراستهم , يشمل هذا الطلب من الطلاب الآخرين تبادل العمل و التحقق منه , طرح الأسئلة و تبادل الأفكار . المعلم يجب أن يكون جزءا من المجموعة أيضا , لمراقبة ما يجري . شكرا لاستماعكم . هل من احد عنده أسئلة؟

1. Students can use computers at home to help them in their studies. Write down two ways to do that.

2. Teachers must be part of the group who use computers at home. Write down the reason for that.

3. What is the teacher's role while students using the social media?

4. Quote the sentence which shows where and when students often use their computers .

1-Quote the sentence which shows where and when students often use their computers .

2-How would students feel when quest speakers from another country could give a lesson to the class.

3-How can emails be useful \ beneficial in the classroom?

4-Quote the sentences which indicates that some students like to send short messages for other people to read?

5-Students can send many things to the website. Write down two of them.

6-Students can use the tablets to do tasks. Write down two of these tasks.

7-Teachers can use the Internet to show many educational programmes. Write down two these programmes.

8-There are two characteristics of the ways of the information that make students like learning. Write them down.

**The internet of things**

**انترنت الاشياء**

**A: What is the ‘Internet of Things’?** ما هو انترنت الأشياء ؟

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.

الجميع يعلم أن الانترنت يربط الناس يبعضها ولكنها الآن تفعل أكثر من ذلك \_ أنها توصل الأشياء أيضاً في هذه الأيام، أجهزة الكمبيوتر غالبا تتصل مع بعضها البعض على سبيل المثال جهاز التلفاز يقوم تلقائيا بتحميل برنامجك التلفزيوني المفضل أو يقوم نظام "الملاحة عبر الأقمار الصناعية بإخبارك أين أنت وهذا ما يعرف بـ "إنترنت الأشياء" وهناك المزيد سيأتي في المستقبل .

1-The internet connects two groups. What are they?

2-It is known that the Internet connects two things. Write down these two things

3-According to the text, what is meant by the 'Internet of Things'?

4-The 'Internet of Things' means the connection between different computers. Write down two examples to show this.

5-According to the text, what does the 'sat nav' mean?

6-What does the underlined word "it" refer to?

7-Find *a word* in the first paragraph which has the same meaning as 'speak to'.

B: An easy life! **حياة سهلة**

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!

خلال سنوات قليلة , يقول الخبراء أن مليارات الآلات سترتبط مع بعضها البعض و بالانترنت . كنتيجة لذلك , ستقوم الحواسيب بشكل متزايد بإدارة حياتنا . مثلا , ثلاجتك ستعرف متى ستحتاج حليب أكثر و إضافته إلى قائمة التسوق خاصتك عبر الانترنت , نوافذك ستغلق إذا كان

هناك احتمال لسقوط المطر , ساعتك ستسجل معدل نبضات قلبك و إرسال ليميل إلى طبيبك الخاص , و أريكتك ستخبرك متى تحتاج للوقوف والقيام ببعض التمارين!

1-Quote the sentence which shows the result of connecting machines to each other and to the internet.

2-Quote the sentence which acts as a result in the text.

3-According to the writer, computers will increasingly run our lives for us. Write down two examples to show this.

4-According to the text, how will the 'Internet of Things' help you to keep fit?

5-The 'Internet of Things' can make your watch do two things. Write them down

6-The 'Internet of Things' can make your fridge do two things. Write them down

7-The 'Internet of Things' can make your sofa do two things.Write them down.

8-What does the underlined word "it" refer to?

C: A frightening future **مستقبل مخيف**

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 يستمتعون بانترنت الأشياء . بالنسبة لهم , الحلم أصبح حقيقة . يقولون أن حياتنا ستصبح أسهل و أكثر راحة . على أي حال , الآخرون ليسوا متأكدين تماما . يريدون أن يبقوا مسيطرين على حياتهم و أشياءهم الخاصة . إضافة إلى ذلك , يتساءلون ماذا من الممكن أن يحصل في حال تمكن المجرمون من الوصول إلى كلماتهم السرية و إعدادات الحماية الخاصة بهم . الحلم من السهل أن يصبح كابوسا.

1-According to the text, why are some people excited about the future?

2-According to the text, when could the 'Internet of Things' easily become a nightmare?

3-Find *a word* which means "to find information, especially on a computer"

4-What does the underlined word "They" in the third paragraph refer to?

5-What does the underlined word "others" in the third paragraph refer to?

6-According to the text, why are many people excited about the future?

**COMPREHENSION**

1. Internet of things connects objects. Write down two examples on it.
2. In near future, machines will be connected to each other and to the Internet. Write down the result of that.
3. According to experts, in near future, computers will run our lives for us. Write down two examples on that.
4. Write down the sentence which indicates that computers will make our life easier in the future.
5. Many people are excited about the Internet of things for a reason. Write it down.
6. Other people are pessimistic about the Internet of things for two reasons. Write them down.
7. Write down the sentence which indicates that some people are afraid of the future with the Internet of things.
8. What does the Internet of things mean?
9. How will the Internet of things help you to keep fit?
10. Why are many people excited about the future?
11. Why are other people worried about the future?
12. Find a word in the text which means “**people who have committed crimes**”

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| **access**  **(يدخل لإيجاد المعلومات)** | (verb) to ﬁnd information, especially on a computer access (noun) –  accessible (adjective) |
| **ﬁlter ( يُنقي)** | (noun) a program that checks whether certain content on a web page  should be displayed to the viewer ﬁlter (verb) |
| **identity fraud**  **) ( انتحال الشخصية** | (noun) illegal actions using the identity of someone else, normally to  buy things |
| **privacy settings**  **( إعدادات الخصوصية)** | (noun) controls available on social networking sites which let you decide who can see what information |
| **security settings**  **( ضبط الأمان)** | (noun) controls available on computer programs which let you protect your computer from viruse |

|  |  |
| --- | --- |
| يعرف عن | Know about |
| يتواصل مع | Connect with |
| يشغل | Turn on |
| يمنح / يعطي | Give out |
| يملئ /يعبئ نموذج | Fill in |