

The main vocabulary list:

Unit: 04: Budding Scientist /// topic: Innovation and Technology



Budding : beginning to develop or show signs of future success in a particular area تبرعم / ناشئ	Dimensions : البعد / الأبعاد a measurement of something in a particular direction, especially its height, length, or width:
Science : العلم a particular subject that is studied using scientific methods:	Distance : المسافة the amount of space between two places
Experiment : beginning to develop or show signs of future success in a particular area : التجربة	Segment : one of the smaller groups or amounts that a larger group or amount can be divided into. جزء / قسم / قطعة
Technology : (the study and knowledge of) the practical, especially industrial, use of scientific discoveries التكنولوجيا	Ray : a narrow beam of light, heat, or energy شعاع
Geometry : the area of mathematics relating to the study of space and the relationships between points, lines, curves, and surfaces الهندسة	Degree : a unit for measuring temperatures or angles, shown by the symbol ° written after a number درجة
Sociology : the study of the relationships between people living in groups, especially in industrial societies علم الاجتماع	Equal : the same / identical / equivalent / like متساو - متشابه
Algebra : a part of mathematics in which signs and letters represent numbers الجبر	Perpendicular : at an angle of 90° to a horizontal line or surface: عمودي

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Astrolabe : a circular device used from ancient times until about the 18th century for measuring the position of stars, and on ships for calculating the ship's position الاسطرلاب	Reflex : الانعكاس a physical reaction to something that you cannot control ( reflection)
Moorish : belonging or relating to the group of Muslim people from North Africa who ruled Spain from 711 to 1492	Evaporate : يتبخر to cause a liquid to change to a gas, especially by heating:
Innovation : (the use of) a new idea or method: التجديد / novelty / modernism	Pressure : the application of force by one body on the surface of another الضغط
Discovery : the process of finding information, a place, or an object, especially for the first time, or the thing that is found الاكتشاف	Chemical : any basic substance that is used in or produced by a reaction involving changes to atoms or molecules كيميائي
Invention : something that has never been made before, or the process of creating something that has never been made before الاختراع - الابتكار	Alchemy : a type of chemistry, especially in the Middle Ages, that dealt with trying to find a way to change ordinary metals into gold and with trying to find a medicine that would cure any disease الكيمياء
Branch : a part of something larger غصن / فرع	
Angle : the space between two lines or surfaces at the point at which they touch each other, measured in degrees زاوية	Theorem : (especially in mathematics) a formal statement that can be shown to be true by logic نظرية

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Figure : the symbol for a number or an amount expressed in numbers: شكل form - shape

Hypothesis : an idea or explanation for something that is based on known facts but has not yet been proved / افتراض فرضية

Dot : a very small round mark - نقطة



Observation : a remark about something that you have noticed الملاحظة

Physics. the scientific study of matter and energy and the effect that they have on each other: الفيزياء

Liquid سائل a substance, such as water, that is not solid or a gas and that can be poured easily:

Thick : غليظ having a large distance between two sides thickness السمك

Freeze يجمد to become or make something cold or colder

Long / continuing for a large amount of time: (adj) طويل length (n). : الطول

Statics مستقر / متغير staying in one place without moving, or not changing for a long time

Width العرض the distance across something from one side to the other: (n) / wide (adj) عريض

Engine / a machine that uses the energy from liquid fuel or steam to produce movement: محرك / آلة / أداة

Straight: continuing in one direction without bending or curving. استقامة / مستقيم

Power : ability to control people and events: القدرة و القوة





**Achievement** : something that you did or got after planning and working to make it happen, and that therefore gives you a feeling of satisfaction, or the act of working to make this happen ( accomplishment ) الانجاز

**Contribution** : something that you contribute or do to help produce or achieve something together with other people, or to help make something successful: المساهمة

**Philosophy** : the use of reason in understanding such things as the nature of the real world and existence, the use and limits of knowledge, and the principles of moral judgment الفلسفة

**Aeronautics** : the science of designing, building, and operating aircraft - علم الطيران / فن الطيران

**Molecule** : the simplest unit of a chemical substance, usually a group of two or more atoms ( tiny part ) جزيء

**Buoyancy** : the quality of being able to float: قابلية الطفو فوق الماء

**Melt** : يذوب to turn from something solid into something soft or liquid



### Unit 03: Budding scientists Seq one: Discovering the language

Pre-reading: look at the following pictures and match them with what do they represent

Smart camera – dishwashing machine - twitter – microwave - subway – robot

Microwave



Smart camera



Robot



dishwashing machine



-Do you think that these inventions have changed our life? How

I Think that these inventions have changed our lives

since they facilitated so many fields as well as  
minimizing efforts and time.

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**Reading:** read the text carefully then do the following tasks.

### How technology changed our life

No one can deny that the progress we most experience today is due to the positive impact that technology has made. It has touched every domain of life and eased our lifestyle. To a greater extent technology has affected the way people communicate, eat, travel and do most of their services.

First, in transportation, traveling becomes much easier with many available inventions such as the subway, train and airplanes. Today with all the means in the net such as twitter, viber ect... People can contact each other easily wherever they are and in short period of time. In the field of medicine we do have some interesting invention such as Anesthesia, transplanting organs, X rays, hearing device, intelligent beds..All these means have revolutionized the field hence, the future may bring new extraordinary devices. Science is another domain that thrives as result of the many advancement made. Today in a short period of time scientists have made a vaccine against corona virus (sputnik-...), other invention is the introduction of 3D map of the galaxy. Oneer Tm which is a water disinfection system that will help in water usage. Other device is sterilizer spray which can protect objects from water, dirt, heat ect..Not to forget also that technology has touched our life at home bringing new ideas and machines for housekeepers such as washing machine, smart sofa, dish washer, the vacuum cleaner and the electric mixer are all devices that facilitate most of the housework

Though technology made our life so comfortable, it still presents a threat to humanity and the futures of humans. so either use it properly or lose it. The answer of this issue depend on the way we deal with modern technology

Technology is a useful servant but a dangerous master.

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Task one: Choose the correct answer

1-The text is a)-Narrative b)-Argumentative c)-Expository

2-The text talks about: a)-The negative impact of technology

b)-The positive impact of technology ✓

c)-The issue created by technology

Task two: Say if the statements below are true or false

1-Technology has impacted nearly all domains in our life F

2-Nowdays traveling is not easy F

3-Corna virus treatment is a newly made vaccine in medicine T

4- Technology menaces the lives of people if used improperly T

Task03: What or who do the underlined words refer to in the text

We §1... readers... which §2... oneer... that §3... all devices It §4... technology

Task04: Answer the following questions according to the text

1-What does technology affect?

..... Tech affects every domain of life - .....

2-List two main inventions made in science by inventors?

3-What conclusion does the writer draw concerning the use of technology?

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## TYPES OF TEXTS

There are **four** common types of texts in English. This are: **narrative**, **descriptive**, **expository**, and **argumentative**.

هناك أربع أنواع من النصوص الأكثر تداولاً في اختبار اللغة الإنجليزية، وهي: **النص القصصي**، **النص الوصفي**، **النص التفسيري**، و**النص الحجاجي**. نعرض في هذا الملخص أهم خصائص كل نوع وكيفية تحديده بسهولة.

### الخصائص

#### Narrative القصصي

- زمن الأفعال. تكون هذه الأفعال مصروفة في الزمن الماضي (The Past Simple)
- ظروف الزمن التي تدل على الماضي (Ago, In the past, last, 3000 BC, ...)
- كثرة الأحداث داخل النص وتسلسلها.

#### Descriptive الوصفي

- زمن الأفعال. يغلب على النص الزمن الحاضر
- (The Present Simple) كثرة الصفات + الأحوال
- (The Adjectives + Adverbs) الجمل داخل النص تكون قصيرة.
- (Very short sentences)

#### Expository التفسيري

- الأفعال تكون غالباً في الزمن الحاضر (The Present Simple/Perfect/ Continuous)
- مناقشة الأفكار والظواهر الاجتماعية التي نعيشها.
- الإكثار من الأمثلة داخل النص. تجد بكثرة كلمتي (For example/ For instance)
- تجد الروابط (السبب/النتيجة) بكثرة داخل النص (Because, as a result, so, consequently , since,...)

#### Argumentative الحجاجي

- الأفعال تكون في الزمن الحاضر.
- يتكون من مقدمة، عرض وخاتمة. (حوالي 3-4 فقرات)
- الإكثار من الروابط داخل النص وخصوصاً التي تدل على النقيض/ الضد مثل: (However, But, Despite, In spite, Although, Though,...)



-Find in the text words that are closest in meaning to :

-Development §1= **Progress** prospers§2=**Thrives**. Enjoyable§3=**Comfortable**

Task05: Complete the following chart

Verb	Noun	Adjective
To ease	<b>ease</b>	<b>easy</b>
<b>to...Progress</b>	Progress	<b>Progressive</b>
<b>to...use</b>	<b>use...USER</b>	Useful
To discover	<b>discoveries</b>	<b>discovered</b>

Post-reading

Technology nowadays has becomes a critical part of our lives that has benefited humanity and facilitated several domains.

\*Based on what you have already seen write a short paragraph on the advantages of technology in Modern life

Communication  
Transportation  
Education

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1. When it comes to communication, Technology reduces the distance between people such as social media that allows you to talk or see another person whenever and wherever you are.

education: Technology improved the field of education a lot by introducing the distant

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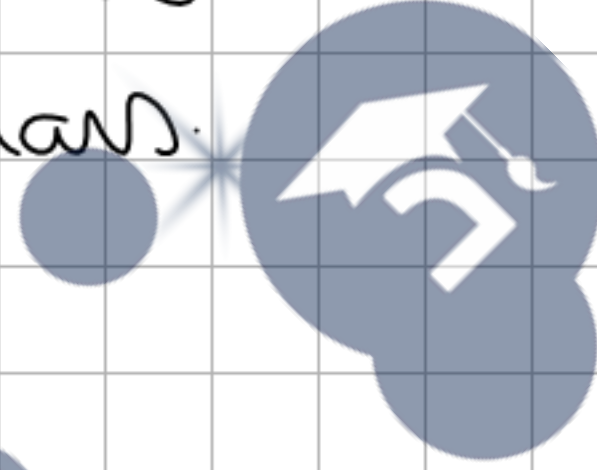
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learning which minimize efforts and  
Time on the Modern scholars.



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