

GRADE Twelve
Module Four
Unit Ten : Pushing the Limits

Word	P .o. S	Definition	Arabic Meaning
Ascend	V	To climb to the summit of a mountain	يتسلق
Attempt	N	An effort to surpass a record or conquer a mountain	محاولة
Dizzying	Adj	Make someone feel of unsteady or confused	مسبب للدوخة أو الدوار
elite	N	A group of people considered the best in a particular society	النجبة / الصفوة
Exhaustion	N	A state of being physical fatigue	إرهاق / تعب شديد
extreme	Adj	Reaching the highest degree	قارس / شديد البرودة
Frost-bite	N	Injury to body tissues caused by exposure to extreme cold	تجمد الأطراف / ضربه صقيع
highlight	V	To pick out and emphasise	يركز أو يؤكد على ..
perilous	Adj	Full of danger or risk	محفوف بالمخاطر
Reconstruction	N	The process of rebuilding something after it has been damaged	إعادة الأعمار (بناء)
scale	N	To climb up or over	يتسلق / يصعد
summit	n	The highest points of mountains and hills	قمة (جبل)

SET-BOOK QUESTIONS

1. There are a lot of limits which face man's progress. What do we need to push these limits?

* We usually need things like Adventure , Courage , Challenge and Ambition. We also need determination and fitness.

2. What difficulties may a mountain climber face?

* Mountain climbers may face Exhaustion , Lack of oxygen , Sickness, Injury , Strong wind and Dizzying heights

3. What qualities would a person need to climb a very high mountain covered with snow?

* They need fitness , strength , perseverance and determination

4. What preparations should be done before going on expeditions like climbing dizzying mountains?

Before going on an expedition we should prepare suitable clothes and shoes , a suitable place to stay in . We should Take a medical kit and a mobile phone..

5- Why do you think people push themselves to extreme limits?

- People push themselves to extreme limits to be famous to make money and to prove their abilities.

LESSON 3

Word	P .o. S	Definition	Arabic Meaning
Clamber	V	To move /climb slowly using hands and feet because of difficulty	يتسلق بصعوبة
Manned	Adj.	Run or operated by human control	يقودها إنسان
Set a record	Exp.	To reach a new limit	يحقق رقما قياسيا
submerged	Adj	Under water	غاطس / مغمور بالماء

Set-Book Questions

1- What are the pros and cons of record breaking attempts?

PROS:

* Amazing achievements , Fame and Proving one's abilities .

CONS:

- extremely dangerous , may lead to death or cause injury.

UNIT TEN : LESSON 4 , 5

Word	P .o. S	Definition	Arabic Meaning
Afflicted	Adj	Affected in an unpleasant, painful way	مصاب ب
Alight	Adj	On fire , burning	مشتعل / محترق
Arson	N	The criminal act of setting fire to property	إحراق الممتلكات عمدا
Austere	Adj	Severe in appearance	قارس / قاسي
Come across	V	To meet or find by chance	يقابل (يأتي على) بالصدفة
Come away with	V	To be left with a specified feeling or impression	ينجح في الحصول على شيء / يفوز ب
Come down	V	To becomes lower	يهبط / ينخفض (السعر)
Come over	V	To visit you at your house	يزور
Come round	V	Recover after being unconscious	يستعيد الوعي / يشفى
Come up	V	To become available unexpectedly/to be mentioned especially in a conversation	يذكر اسم شخص / يظهر فجأة
Exhilarated	Adj	Feel very happy	مبتهج / مسرور
Fatigued	Adj	tired	مرهق
Traverse	V	To travel across or through	يعبر / يجتاز
Unconscious	Adj	Unable to see, hear or sense what is going on	فاقد الوعي / مغمى عليه
Visible	Adj.	Able to be noticed easily	مرئي

LESSON 7 , 8

Word	P .o. S	Definition	Arabic Meaning
Assist	V	To help someone doing a share of some work	يساعد / يعاون
binoculars	N	An optical instrument used for viewing distant objects	منظار
Cope with	V	To deal effectively with something difficult	يتماشى مع / يساير
Crave	V	To feel a powerful desire for something	يرغب بشدة / يشنق ل
Engulf	V	To sweep over to cover completely	يحيط ب / يغطي تماما
Entail	V	To involve something as a necessary part	يستلزم / يتضمن
Feat	N	An achievement that requires great courage and skill	انجاز / عمل بطولي
Grueling	Adj.	Extremely tiring	منهك / مرهق / متعب
Mountaineer	N	A person who takes part of the sport of climbing mountains	متسلق الجبال
Strong-willed	Adj	Determined /stubborn	قوى الإرادة و العزيمة

SET-BOOK QUESTIONS**1- What type of personality and skills are needed for challenges?**

* People who takes challenge usually have strong will , motivation and fitness.

2- What can we learn from expeditions of challenges?

* We can learn good things like patience, courage and experience.

3- What things should you take when going on expedition ?

- We should take water and food, first kit-aid and compass. We should also take tent and binoculars

Unit 10 Lesson 9**1-What piece of advice would you give people performing extreme sports ?**

- I would advise them to tell a friend where they are going , Prepare and check their equipment. They should always be careful and take a mobile with you.

2- How can you stay safe whilst doing extreme sports?

* By making sure that we are well prepared. By taking a medical kit.

c- By taking a mobile phone with you. By tell people where you are going.

GRADE Twelve
Module Four
Unit Eleven : The Final Frontier

LESSON 1 , 2

Word	P .o. S	Definition	Arabic Meaning
Abhorrent	Adj	Inspiring disgust	كراهه / غير مقبول
Awe-inspiring	Adj	Arousing awe from being impressive	مهيّب / مذهش / مذهل
Concept	N	An abstract idea	مفهوم / مبدأ
Detriment	N	The state of being harmed or damaged	أذى / ضرر
Execute	V	To carry out an order, or plan	ينفذ / يقوم ب / يخطط
Frontier	N	The extreme limit of an area, border	حد (حدود)
Intrepid	Adj	Fearless, adventurous	شجاع / مغامر
Mission	N	An expedition into space	مهمة (في الفضاء)
Orbit	V	To fly or move around in a circle	يدور في مدار
revere	V	To feel deep respect for something	يحترم / يبجل
Revolve around	V	To go around	يدور حول
Sentient	Adj	Able to perceive or feel things	مدرك / لديه إحساس
Universe	N	The earth, planets, and stars	الكون

SET-BOOK QUESTIONS :

1-Why is a space station important ?

1- What are the aims of the International Space Station ?

- They are important to conduct experiments. To see if there's life on other planets.

2- Though space exploration is costly, it is of extreme importance . Give reasons.

- To know new information about space. To discover more information about our planet.

3-Are you for or against space travel ?Why ? Why not?

I'm against.

- It's a waste of money. It's a waste of time.

OR

I'm for.

- To know about other planets. To make progress in all fields

4- Thousands of beneficial innovations have evolved from the work of space scientists . Give examples !

- We got many benefits from work in space like digital Technology, food production. Medicine, alternative energy technology.

Unit 11 : LESSON 3

Word	P .o. S	Definition	Arabic Meaning
approximately	Adv	almost	تقريباً / على نحو تقريبي
Dispatch	V	To send off to a destination or for a purpose	يرسل
Obscure	V	To prevent something from being seen or heard clearly	يخفي / يحجب عن الرؤية
Perceivable	Adj	Could be noticed	يمكن رؤيته أو ملاحظته
Scrutinise	V	To examine someone or something carefully	يتفحص / يدرس / يدقق

Set-Book Questions

1- What is a probe ? What is its function ?

- It is a small spacecraft. It documents information and transmits it back to Earth.

2- -Why is it difficult for scientists to study Venus from Earth?

- Because it is completely obscured by clouds.

3- What similarities are there between Venus and Earth ?

- They are comparable in size. They are nearly the same age.

4-What are the differences between Earth and Venus ?

- Venus is devoid of oceans. Venus has a very high atmosphere and .Venus day is very long. A very high temperature .

5- Are you for or against space tourism ?

I'm against..

- It's very expensive and perilous. A waste of time.

6- Why has Venus been given the epithets " the morning star "and" the evening star "?

* Because it is only perceivable from the Earth three hours before sunrise and three hours after sunset.

UNIT ELEVEN : LESSON 4,5

Word	P .o. S	Definition	Arabic Meaning
Astronomical	Adj	Relating to the branch of science that deals with space	فلكي / ذو صلة بالفلك
conducive	Adj	Making a certain situation likely or possible	مساعد على / محفز
exceptionally	Adv	Unusually, remarkably	على نحو استثنائي
habitation	N	The state of living in a particular place	المعيشة / السكن
Natural satellites	N	the moon(s)	أقمار تابعة / أقمار طبيعية
On board	N	Situated on a ship , aircraft or other vehicle	على متن (سيارة/طائرة)
Opportunity	N	A set of circumstances that makes it possible to do something	فرصة
Roughly	Adv	In a manner lacking refinement and precision	تقريباً
Solar system	N	The collection of nine planets and their moons in orbit around the sun	النظام الشمسي
Superb	Adj	Impressively splendid	رائع / فخم
Wane	V	To decrease power or extent; become weaker	يضعف / يخفت

Set-Book Questions

1- Why does Mars hold people's fascination ?

* Because it is the only other planet with potential to sustain life .

2- Islamic civilization has played a major role in astronomical science. Explain

* Engage in hundreds of hours of space- walks. The 1971 Apollo 15 mission to the moon took with it the first surah of the Holy Quran.

3-Certain factors make Earth conducive to human habitation like

- Its suitable temperature. Its gravity. The availability of water. The existence of living creatures (plants / animals)

4- What are the aims of the Scientific Center of Kuwait ?

- Advancement of science. Preservation of the cultural heritage of Kuwait.

UNIT 11 / LESSON 7 , 8

Word	P .o. S	Definition	Arabic Meaning
Abnormal	Adj	Deviating from what is usual in a way that is undesirable or worrying	غير عادي
Alert	V	To warn of a danger or a threat	ينبه / يحذر
data	N	Facts collected together for reference or analysis	بيانات / معطيات
Dual	Adj	Consisting of two parts or aspects	ثنائي
Durable	Adj	Able to withstand	يدوم طويلا
Economical	Adj	Giving good value in relation to the amount of money, time, or effort spent	اقتصادي
Emission	N	The production of gas or radiation	انبعاث / خروج الغاز
GPS	N	Global Positioning System	نظام الملاحة الدولي
Monitor	V	Observe and check the progress of something over a period of time	يراقب / يتابع
revolutionise	V	To change radically	يحدث (ثورة / طفرة) تغير كبير
specifically	Adv	Exclusively , particularly	بصفه خاصة / حصرياً
Spin-off	N	Items used in space that improve our lives on Earth	تكنولوجيا فضائيه للاستفادة منها على الأرض
Take for granted	Expression	To believe something to be true without even thinking about it	أمر مسلم به / يسلم بالأمر
trainers	N	A soft shoe suitable for sports or casual wear	حذاء رياضي

SET-BOOK QUESTIONS

1- Different fields of human lives on the Earth are affected by space technology. Mention two of these fields.

* The fields which are affected by space technology are aircraft technology and wireless technology.

2- How has space technology affect aircraft technology?

* It has made aircraft lighter. It has made aircraft faster. It has made aircraft more economical.

3- The wireless technology is now used in medicine. Why ?

* to monitor heart activity. To alert medical staff of abnormal activity of the heart.

4- Other benefits can be gained from space technology? Mention some.

* Satellite television. Weather forecasting. GPS systems. Mobile phones. Air-conditioning units.

5- Advancements Space technology have enabled people to revolutionise their life on Earth . How ?

- Through using aircraft technology . Developing wireless communications.

Unit 11 / Lesson 9

1-Why do astronauts wear a space suit ?

- It has a cooling system. It keeps their food and drinks. It has communication tools.

GRADE Twelve

Module Four

Unit Twelve : Geniuses

LESSON 1 , 2

Word	P .o. S	Definition	Arabic Meaning
abstract	Adj.	Existing in thought , not having a physical existence	مجردة / غير محسوسة
Arbitrarily	adv	Randomly , by chance	بصوره عشوائية
Audience	N	Spectaculars or listeners at a public event	الجمهور / المشاهدون
BSc	Abbrev.	Bachelor of Science	بكالوريوس علوم
Digit	N	Number	رقم / عدد
Genius	N	Intelligence cleverness	عبقرية / ذكاء خارق
MSc	Abbrev.	Master of science	ماجستير في العلوم
Outstanding	Adj	Unusually good	مرموق / رائع / ممتاز
PhD	Adj.	Doctor of philosophy	شهادة دكتوراه
Precocious	Adj	Having developed certain abilities at an earlier age	مبكر النضوج / سابق سنه
Prodigy	N	A young person endowed with exceptional qualities or abilities	طفل عبقرى أو معجزة
Randomly	Adv	Made without method	على نحو عشوائي
Talents	N	Natural abilities or skills	مواهب
Tour	V	To visit several parts of a country	يجول / يقوم برحله
virtuoso	N	A person highly skilled in music or another artistic pursuit	فنان (موسيقي) مبدع

SET-BOOK QUESTIONS

1- Who are child prodigies ?

- They are children who have outstanding talents or skills at a very young age.

2- What are the advantages of being a child prodigy ?

- Many different advantage like become famous and being rich. Being able to help the society

3- What are the disadvantages of being a child prodigy ?

- He may lose appeal when he becomes an adults. They may lose their skills.

4- Do you think child prodigies should be treated as special cases ? Why ?

- Of course, yes. Because they can be outstanding geniuses .

5- What is the duty of governments towards geniuses ?

- Governments should nurture them and encourage them.

Unit 12 : LESSON 3

Word	P .o. S	Definition	Arabic Meaning
Acquire	V	To buy or obtain	يكتسب
Attire	N	clothes	ملابس
Deputy	N	Someone who is directly below another one in rank and who's in charge when that person isn't there	وكيل / نائب رئيس
Electrochemical	N	Relating to chemical reaction brought about by electricity	كهر وكيميائي
Forum	N	A meeting where views on a particular issue can be exchanged	منتدى
Medallist	N	Someone who has won a medal in a competition	الحائز على ميدالية
Reactor	N	A coil that provides reactance in a circuit	راد الفعل في دائرة كهربية
Sewage	N	The mixture of waste from the human body and used water that is carried away from houses	مياه الصرف الصحي
Sponsor	N	A person or organization that provides funds for a project or activity	الراعي الرسمي
unprecedented	Adj	Never having happened before	غير مسبق / لم يحدث من قبل

SET-BOOK QUESTIONS :

1- What should governments do to encourage talents?

* The government should Nurture them, Sponsor them. Encourage them. They should provide them with all necessary facilities.

2- Winning the Oscar at the Geneva's International Fair for Inventions was an unprecedented achievement by three young Kuwaitis . What are their inventions ?

- * **Ahmed AL-Hashash** : Airbag for Motorcycle bikers .
- * **Sadeq Al-Qassem** : Light Indicator system (LIS)
- * **Abdullah AL-Yateem** : electrochemical reactor

3-What does the electrochemical reactor that Abdullah AL Yateem invented do ?

- It uses sewage water to produce electrical energy.

4- Why should Arab inventors go to international fairs ?

- To Show their talents, enjoy challenge, develop their ideas and get experience.

UNIT 12 : LESSON 4 , 5

Word	P .o. S	Definition	Arabic Meaning
Accusation	N	A claim that some one has done something illegal	اتهام
Agonise	V	To go under great mental worrying about something	يسبب قلق
Extravagantly	Adv	Spending money or using resources in a wasteful way	بإسراف وبذخ
High-living	N	An extravagant social life as enjoyed by the wealthy	حياة مرفهة
Jockey	N	A person who rides in horse races as a professional	فارس السباقات
Repudiate	V	To refuse to accept	يرفض
season	N	A fixed time in the year	موسم

UNIT 12 / LESSON 7 , 8

Word	P .o. S	Definition	Arabic Meaning
Accolade	N	An award granted as a special honour	وسام / ميدالية / جائزة
Aligned	Adj	Put into correct position	مرتب / منظم
Bladder	N	A membranous sac in which urine is collected for excretion	المثانة
Eternity	N	Infinite or unending time	خلود / أبدية
Genetics	N	The study of heredity and inherited characteristics	علم الجينات / علم الوراثة
Gifted	Adj	Having exceptional ability or talent	موهوب
Molecular	Adj	Consisting of molecules	جزيئي
Nomination	N	Proposing entering as a candidate for election or for an honour or award	ترشيح / تسمية مرشح
Non-invasive	Adj	Not requiring the introduction of instruments into the body	بدون جراحة / لا يحتاج إلى تدخل جراحي
Recipient	N	A person or thing that receives or is awarded something	المستفيد / المتلقي
researcher	N	A person who investigates materials in order to reach new conclusions	باحث

SET-BOOK QUESTIONS :

1-The Kuwaiti Scientist Dr. May AL-Maghrebi earned the nomination of the new Genius award because of her achievements . Give examples !

- She developed non-invasive technique to cure bladder cancer . Received Kuwait's university best young researcher award . Received many international awards . Awarded her PhD in molecular biology and genetics .

Unit 12 : Lesson 9

1-What information should you fill in when applying for the university ?

- I should fill in information like first and surname , gender , permanent address and date of birth .

Module 4 Focus On

1-What does a person need to fulfill his dream ?

- He needs to be persistent, realistic, courageous and well-planned . He should also have clear idea about his aims.