**1. IT: pros and cons**

**1.1** Introduction

Definition of Information Technology (IT). Pros and cons of IT. The role of IT.

**1.2** Interesting facts about IT (storytelling)

Importance of IT. IT jobs. Computer.

**1.3** WWW Making PPT

Advantages and disadvantages of some technologies.The role of technologies in everyday life.

**1.4** Writing an article “Meta”

Defnition of meta. Examples.

**1.5** Progress Check 1 (Test)

**2. Natural disasters**

**2.1** Environmental Issues

Definition of environmental issues. Climate change. Pollution. World population. Natural disasters.

**2.2** Global Warming Topic Vocabulary

Human impact on the environment.Organizations. Greenhouse effect. Deforestation.

**2.3** Focus on Kazakhstan: reporting on the causes and consequences of natural disasters

Causes and consequences of natural disasters. Climate of Kazakhstan.

**3. Virtual reality**

**3.1** Mobile applications

Definition of mobile applications. Mobile gaming applications. Educational applications.

**3.2** Gamification (discussion)

Definitions of gamification. Examples of gamification. Usage and importance of gamification.

**3.3** Advantages of the Web

Definition of the Web. Advantages and disadvantages of the Web.

**3.4** CLIL. Project work "Virtual Reality Exhibition"

Definition of the Virtual reality. Usage and importance of virtual reality. Technology of the future.

**3.5** Progress Check 3 (Writing an article "History of "Apple"")

**4. Mining and Environment**

**4.1** Mining and Sediments

Definition of mining. Methods of mining, its consequences. Definition of sediments. Types of sediments.

**4.2** Advantages and disadvantages of Plastics

Definition of plastics. Applications and environmental effects. Recycling.

**4.3** A scientific video review. Reported Speech

Reported speech: statements, time expressions. Reported speech: questions and imperatives. Reporting verbs.

**4.4** BOOPPPS. "Karachaganak Field"

Location and field reserves. Impact on the environment. Karachaganak Petroleum Operating (KPO).

**4.5** Progress Check 4 (Vocabulary review)

**5. Reading for pleasure**

**5.1** Reading a non-fiction text "What is "Gamification?"

Definitions of gamification. Examples of gamification. Usage and importance of gamification.

**5.2** "Kanysh Satbaev" Skimming reading

Biography of Kanysh Satbayev. Kanysh Satbayev’s family. Contribution to the history of Kazakhstan.

**5.3** Giving advice on how to reduce stress (psychology). Simple Passive Voice Tenses

Using the Passive. The difference between Active voice and Passive voice.

**5.4** Pros and cons of reading a book. Writing a blog post

Pros and cons of reading a book.

**6. Electronics and automation**

**6.1**  Functions of mechatronics (Mind-map)

Definition of mechatronics and its functions. 4 major arreas of mechatronics.

**6.2** Use of English. Relative clauses, determiners and quantifiers. Creative people (Geology,Engineering,IT)

Types of relative clauses. Determiners and quantifiers.

**6.3** Reading biographies of famous people

Definition of biography and its purpose. Importance of biographies.

**6.4** The process of welding (Analysing video)

Definition of welding. Welding processes. Safety issues. Glass and plastic welding.

**6.5** Progress Check 6 (Test)

**7. Breakthrough technology**

**7.1** Nanotechnology Making PPT

Definition of nanotechnology. Types of nanomaterials.

**7.2** Robotics

Definition of robotics. Applications. Types of Robotics. Main components of robots.

**7.3** Progress Check 4 (Vocabulary review)

**8. Energy X**

**8.1** Grammar in context. Conditional sentences

Using Zero Conditional. Using First Conditional. Using Second Conditional. If and when clauses. Using Third Conditional. I wish and if only.

**8.2** A scientific video review (physics, biology, economics)

Definition of physics, biology, economics.

**8.3** "Solar Energy" Skimming reading

Explanation of solar energy. Importance of solar energy. Electricity production.

**8.4** Progress Check 8 (Writing an opinion essay)

**9. Materials Production**

**9.1** Grammar in context. Active and Passive Voice Perfect forms

Using the Passive. The difference between Active voice and Passive voice.

**9.2** "Floor Materials" Skimming reading

Definition of Floor materials. Flooring ang floor materials. Subfloor.

**9.3** Future Continuous Tense. A future city design

Using Future Continuous Tense. A future city desing.

**9.4** Dream House: Design a home

Dream house.

**9.5** "Office Paper Production "Making PPT

Paper production. The process of paper production. Recycling. Quality control.

**9.6** Progress Check 9 (Test)

**10. Work and inventions**

**10.1** Investigating the world of Digital Devices

Explanation of digital devices. Elelments of digital devices.

**10.2** Considering success in oil business

Description of oli business. Oil industry. Refining industry.

**11. Architecture and Construction**

**11.1** "Cement"

Definition of cement. Environmental impacts. Applications of cement

**11.2** "Ancient architecture" Making PPT

Definition of ancient architecture. Characteristics of ancient architecture. The history of architecture.

**11.3** "The history of Engines’ Skimming reading

Definition of engines.

**11.4** Progress Check 4 (Vocabulary review)

**12. Transport for Tomorrow**

**12.1** "City Transport" Skimming reading

Definition of transport. Types of transport. Functions of transport.

**12.2** Aircraft (Analysing video)

Definition of aircraft. Environmental impact. Uses for aircraft.

**12.3** Producing information leaflets about "Car sharing"

The notion of car sharing. Types of car sharing. Difference from traditional car rentals.

**12.4** Writing an essay "Elon Musk Phenomenon"

Biography. Dusiness career and other activities. Education.

**12.5** Making Transport Map of your town

The notion of Transport map. Examples of transport map.