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**Предмет:** Иностранный язык

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**Тема:** «Уголь и его классификация»

**Основные источники:**

1. Агабекян И.П. Английский язык для средних специальных заведений: учебник для сред. проф. образования. – Ростов-на-Дону, Феникс, 2010.

<https://college-balabanovo.ru/Student/Bibl/Pravo/AgabekEnglish.pdf>

**Дополнительные источники:**

1. Англо-русский и русско-английский словарь. Мюллер В.К., М.: «Эксмо», 2008.

2. Голубев А.П., Балюк Н.В., Смирнова И.Б. Английский язык: учебное пособие для студентов СПО. – М.: издательский центр «Академия», 2006.

3. Интернет-ресурсы:

<https://www.study.ru>; [www.learn-english.ru](http://www.learn-english.ru)

**Задания (lesson instructions):**

**1. Learn the vocabulary.**

Слова и словосочетания для запоминания

coal -n уголь;

coking coal -коксующийся уголь;

sal(e)able coal -товарный уголь;

coal production- производство угля, добыча угля;

coal reserves -угольные запасы

explosive -взрывчатое вещество, взрывчатый материал

get (got, got) - v добывать, извлекать (уголь, руду);

coal getting- выемка угля, добыча угля

mine - n шахта, рудник; v разрабатывать, добывать;

coal mine -угольная шахта;

mine fire -рудничный пожар

mining -n горное дело, разработка месторождений полезных ископаемых; а горный;

coal mining -добыча угля; угольная промышленность;

hydraulic mining -гидравлическая добыча;

opencast mining- разработка открытым способом;

opencut mining -разработка открытым способом;

strip mining -разработка открытым способом;

output -n добыча, производительность;

annual output -годовая добыча;

daily output -суточная производительность;

OMS — output per manshift- производительность на человеко-смену

safe -a безопасный, надежный;

safety -n безопасность; техника безопасности,

shotfiring -n взрывные работы, взрывание шпуров

spontaneous combustion -самовозгорание

water pressure -водяное давление

win (won, won) -v добывать, извлекать (руду, уголь);

coal winning = coal getting; underground winning -подземная выемка, подземная добыча

**2. Переведите на русский язык следующие существительные с суффиксом -ion(-ation, -tion), образованные от глаголов.**

Например: to apply — применять, application — применение

1. to automate — автоматизировать; automation — ...

2. to install — устанавливать, монтировать; installation — ...

3. to produce — производить; production - ...

**3. Переведите на русский язык следующие существительные с суффиксом -ment, образованные от глаголов.**

Например: to achieve — достигать, achievement — достижение

1. to develop—развивать(ся); development — ...

2. to equip — оборудовать; equipment — ...

3. to improve — улучшать (ся); improvement — ..

**4. Read the text.**

### **COAL MINING**

I. The coal mining industry is one of the leading branches of the national economy in Ukraine. According to recent data coal production in Ukraine is to be greatly increased in future. The vast increase in coal production will be achieved mainly through the development of the most technically improved and economically advantageous methods, i.e. opencast mining. Opencast mining of coal will rise considerably.

II. Underground hydraulic mining had been practised extensively many years ago. In 1960s about three million tons of coal were mined by this method. The advantages of hydraulic mining were safe and easy coal getting. It should be noted that where hydraulic mining was used mine fires do not occur, though very often the coal is liable to spontaneous combustion. Explosives were eliminated. Powerful hydraulic monitors with water pressures up to 800 lb/sq. in. were used. The coal was won without the need of shotfiring.

III. Nevertheless, underground mining constantly plays a major part because most of the high-grade coking coal, on which the steel industry depends, is only found at great depths. It should be noted that the coal industry is to increase the output of coking coal so as to satisfy the needs of the metallurgical industry. The main trend of the coal mining industry is complex mechanization and automation of underground mining, the development and introduction of new winning methods and new equipment which will make miners' work underground easier. According to future plans, the development includes future increases in production, the opening - up of new coal-fields, the full

mechanization of production processes, and the modernization of existing mining enterprises.

IV. To provide the thermal electric power stations with fuel, it will be necessary to put into operation new powerful opencut mines and it has been decided to set up coal-chemistry enterprises with the thermal stations.

**Post-reading tasks.**

**1. Ответьте на следующие вопросы по тексту:**

1. a) What industry is one of the leading branches of the national economy in Ukraine

b) What methods of mining do you know?

2. a) What were the advantages of hydraulic mining?

b) Do mine fires occur where hydraulic mining was used?

c) Was it necessary to use explosives where hydraulic mining was used?

3. a) Why do you think underground mining continues to play a major part in Ukraine?

b) What is the main trend of the coal mining industry?

4. a) What is to provide the thermal electric-power stations with fuel?

**2. Используйте в предложении нужное слово или термин:**

1. ... is regarded as one of the most economical and advantageous methods of mining. If is used where coal lies near the surface. 2. ...s occur where coal is liable to spontaneous combustion.

3. ... means output per manshift. 4. The mining of coal with the help of water pressures without shotfiring is called ... It was safe and easy coal getting. 5. The ... OMS in opencast coal mining is higher than that in underground mining.

**3. Используйте в предложении одно из данных наречий:**

1. nevertheless, 2. mainly, 3. nearly, 4. extensively, 5. undoubtedly.

1. In Ukraine coal production is increased ... through mechanized and automated methods of mining. 2. ... underground mining plays a major part in Ukraine coal industry because a large

proportion of the high-grade coking coal is only found at great depths. 3. Opencast mining is ...- the cheapest, way to win coal. 4. Conventional mechanized winning of coal is ... used in Great Britain. About 95% of British coal is produced by underground mining.

**4. Употребите в предложении одно из данных сочетаний слов:**

1. as against, 2. as compared with, 3. it should be noted (that) ... 4. to put into operation.

1. ... that the output of coking coal will be increased. 2. This mechanized mine increased its output ... 2010. 3. According to recent data new automatic mining machinery is to be ... in Ukrainian mines.

4. Hydraulic mining methods achieved 25 to 40% higher productivity and 30 to 40% lower cost per ton ... conventional coal mining techniques.

**Основываясь на содержании текста I, закончите предложения, используя вариант а), б) или с):**

1. The coal mining industry is one of the leading branches of the national economy. The coal mining industry is to increase its output...

a) according to the diagram; b) according to the scheme; c) according to recent data

2. It should be noted that the vast increase in Ukrainian coal production is achieved mainly through...

a) underground mining; b) opencast and hydraulic mining; c) the development of opencast mining only

3. In hydraulic mines powerful monitors «are applied to win coal. The coal is got without the need of...

a) spontaneous combustion; b) shotfiring

4. An important feature of the coal reserves is that most of them lie at shallow depths and can be mined by...

a) underground mining; b) hydraulic mining only; c) opencast mining

**5. Home Assignment.**

**Перескажите текст I, используя следующие слова и выражения:**

leading branches of the national economy; development of advantageous methods; opencast mining; hydraulic mining; to be liable to spontaneous combustion; underground mining; to play a (major, small) part; the main trend of; the cheapest (most expensive) way to win coal; to put into operation; coal-chemistry enterprises.