**Short plan of the binary lesson**

**Краткосрочный план бинарного урока**

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| **Binary lesson (Algebra, English)****Бинарный урок (алгебра, английский язык)** | **Gymnasium № 41****Многопрофильная гимназия № 41** |
| **Date**: 4 March, Saturday**Дата:** | **Teacher name:** Chirkova L.A.**Учитель:** Олейнник Т.А. |
| **Grades:** 7 “A”**Класс:** 7 “A” | **Number present:**  | **absent:**  |
| **Theme of the lesson:** Rational fractions and their properties**Тема урока:** Рациональные дроби и их свойства |
| **Learning objectives(s) that this lesson is contributing to** | **Цели урока:** |
| **Lesson objectives** | **All learners will be able to:**Name the parts of the rational fraction clearly;Read the parts of the rational fraction correctly;**Most learners will be able to:**Match and write the parts of the rational fraction correctly;**Some learners will be able to**Reduce fraction using active vocabulary; |
| **Success criteria** |

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| “5”-31-29 points “3”-19-4 points“4”-28-20 points “2”-3 point |
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| **Previous learning****Предыдущие знания** |  |
| **Plan** |
| **Time** | **Planned activities**  | **Resources and descriptors** |
| Beginning4 mins | **Organizational moment/Организационный момент**Teacher greets students; students respond to greeting and take their places.-Today we are going to…* Name the parts of the rational fraction clearly;
* Read the parts of the rational fraction correctly;
* Match and write the parts of the rational fraction correctly;
* Reduce fraction using active vocabulary;

**Warming up/Погружение в тему** | **Descriptor:****Дескриптор:** |
| 5 mins5 mins |  **“Brainstorming”/ “Мозговой штурм” (all/все)****http://unimath.ru/images/clip_image002_1123.gif**Teacher asks the questions for solving of the rational fraction. /Учитель задаёт вопросы для решения дроби.Решение:http://unimath.ru/images/clip_image004_0976.gifhttp://unimath.ru/images/clip_image006_0811.gif.**Lead-in/Погружение в тему (all/все)**Teacher focuses on the introduction of new words.Учитель делает акцент на введении новых слов.1. rational fraction [ˈraʃ(ə)n(ə)l ˈfrakʃ(ə)n]- рациональная дробь
2. numerator [ˈnjuːməreɪtə]- числитель
3. denominator [dɪˈnɒmɪneɪtə] - знаментатель
4. cubed [kjuːbd]-в кубе
5. squared [skwɛːd]- в квадрате
6. common multiply [ˈkɒmən ˈmʌltɪplʌɪ]- общий множитель
7. enduring the brackets[ɪnˈdjʊəiŋ ðə ˈbrakɪts] – выносить за скобки
8. the value of the residual of- [ ðəˈvaljuːɒv ðə rɪˈzɪdjʊəl] значение разности
9. the value of the sum of [ ðəˈvaljuːɒv ðə sʌm] –значение суммы
10. reduce fraction [rɪˈdjuːs ˈfrakʃ(ə)n -сократить дробь
11. equals [ˈiːkw(ə)lz] –равно

**Back to the aims: -**Can you name the parts of the rational fraction clearly? | **Descriptor:** students answer the questions using their previous knowledge**Дескриптор:** ученики отвечают на вопросы, используя предыдущие знания***Flash cards*** **Descriptor:** students stick the words and word combinations to the flashcards on the board**Дескриптор:** ученики прикрепляют слова и словосочетания к флэш картам на доске |
| Middle 5 mins6 mins3 mins12 mins | **Reading of the active vocabulary/Чтение новых слов (in pairs/ в парах)**-Read in pairs the following words and word combinations. Tick the words which you have read correctly. http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg

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| rational fraction [ˈraʃ(ə)n(ə)l ˈfrakʃ(ə)n] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| numerator [ˈnjuːməreɪtə] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| denominator [dɪˈnɒmɪneɪtə] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| cubed [kjuːbd] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| squared [skwɛːd] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| common multiply [ˈkɒmən ˈmʌltɪplʌɪ] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| enduring the brackets[ɪnˈdjʊəiŋ ðə ˈbrakɪts] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| the value of the residual of- [ ðəˈvaljuːɒv ðə rɪˈzɪdjʊəl] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| the value of the sum of [ ðəˈvaljuːɒv ðə sʌm] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| reduce fraction [rɪˈdjuːs ˈfrakʃ(ə)n | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |
| equals [ˈiːkw(ə)lz] | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg | http://previews.123rf.com/images/devke/devke1008/devke100800002/7541452-green-check-mark-Stock-Photo.jpg |

**Back to the aims: -**Can you read the parts of the rational fraction correctly?**Fixation of the active vocabulary/Закрепление новых слов (individually/индивидуально)**-Write the parts of the rational fraction. Tick the words which you have written correctly.

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| eq | rator |
| nume | sum of |
| cub | fraction |
| rational | ed |
| the value of | uals |

**Back to the aims: -**Can you match and write the parts of the rational fraction correctly?**Reducing of the rational fractions/Сокращение рациональных дробей. (in groups/в группах)****-**Let’s divide into 3 groups.**http://unimath.ru/images/clip_image012_0674.gif**http://unimath.ru/images/clip_image014_0634.gif

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**Back to the aims: -**Can you reduce fraction using active vocabulary? | ***Sheets for reading in pairs*****Descriptor:** students read the words and word combinations in pairs, tick the words which they have red correctly, count total points**Дескриптор:** ученики читают слова и словосочетания в парах, отмечают правильно прочитанные слова, подсчитывают общее количество баллов***Sheets for individual writing*****Descriptor:** students write the parts of the rational fractions**Дескриптор:** ученики пишут части рациональных дробей***Cards for matching on the board.*****Descriptor:** student goes to board and matches the parts of the words. Others check up themselves, tick correct words and count total points**Дескриптор:** ученик идёт к доске, соединяет части слов. Остальные проверяют себя и подсчитывают общее количество баллов***Paper sheets, colour highlighters*****Descriptor:** students reduce the rational fractions in groups, go to the board, explain the solving, students of the other groups write solving in their copy books. **Дескриптор:** ученики в группах сокращают рациональную дробь, выходят к доске, объясняют решение, ученики других групп записывают решение в тетрадях |
| End1 min |  **Self-assessment/Самооценивание (individually,in pairs/ индивидуально\ в парах)****-Complete the table of self-assessment sheet and point your points. Discuss in pairs what you can do.**1-No, I can’t.2. Yes, I can but I need help.3. Yes, I can.

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| I can answer the questions about reducing of the rational fraction.  |  |
| I can name the parts of the rational fraction clearly. |  |
| I can read the parts of the rational fraction correctly. |  |
| I can write the parts of the rational fraction correctly. |  |
| I can reduce the rational fraction and explain solving. |  |
| **Total:** |  |

 | ***Self-assessment sheets*****Descriptor:** students complete the table of self-assessment sheet, count point, and say what they can do in pairs.**Дескриптор:** ученики заполняют лист самооценивания, считают баллы и в парах говорят о том, что они могут делать по результатам данного урока. |