|  |  |
| --- | --- |
| Resultado de imagem para turquia bandeiraSmart School for Smart Age  Lesson plan - Erasmus + | |
| **Subject: Mathematics** | |
| **Number of lessons: 2** | |
| **Teachers: Murat AVANOĞLU** | |
| **Topic: Exponent Rules** | |
| **Key words:** integer **,** exponents **,** *expression* **,** properties | |
| **Lessons objectives:**   * After this lesson, students will be able to: * Define the term exponent * List the rules and properties of exponents * Demonstrate the ability to use the properties of exponents | |
| **Resources**   * Computers with internet access; * Multimedia projetos; * Tablets with internet access; * Mobile Phones with internet access. | |
| **Lessons sequence/activity**   * **Exponent Rules with Khan Academy(2 lesson)** * **Exponent Rules with Khan Academy(2 lesson)** * **Quiz(1 lesson)** | |
| **Web Tools** | www.khanacademy.org |
|  | [**https://www.mcckc.edu/tutoring/docs/bt/exp\_rad\_log/Exponent\_Rules\_&\_Practice.pdf**](https://www.mcckc.edu/tutoring/docs/bt/exp_rad_log/Exponent_Rules_&_Practice.pdf) |
|  | [**https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/v/multiplying-and-dividing-powers-with-integer-exponents**](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/v/multiplying-and-dividing-powers-with-integer-exponents)  **[https://study.com/search/text/academy.html?q=exponent+rules&pageType=lesson#/topresults/exponent%20rules](https://study.com/search/text/academy.html?q=exponent+rules&pageType=lesson" \l "/topresults/exponent rules)** |







Smart School for Smart Age

**Lesson 1 Exponent Rules**



|  |  |
| --- | --- |
| **1.** | **Learn** - For any base a and any integer exponents n and m, aⁿ⋅aᵐ=aⁿ⁺ᵐ. For any nonzero base, aⁿ/aᵐ=aⁿ⁻ᵐ. These are worked examples for using these properties with integer exponents  <https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/v/multiplying-and-dividing-powers-with-integer-exponents> |
| **2.** | **Pratice Multiply & divide powers (integer exponents)**  <https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/e/exponent_rules> |
|  |  |



Smart School for Smart Age

**Lesson 2 Exponent Rules**





|  |  |
| --- | --- |
| **1.** | **Learn** - For any integers a and b and for any exponents n, (a⋅b)ⁿ=aⁿ⋅bⁿ and (a/b)ⁿ=aⁿ/bⁿ. These are worked examples for using these properties with integer exponents.    https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/v/powers-of-products-and-quotients-integer-exponents |
| **2.** | **Pratice-****Powers of products & quotients (integer exponents)** https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/e/powers-of-powers-int-exp |
| **3.** | **Quiz –** **Properties of exponents challenge (integer exponents)** https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/e/properties-of-integer-exponents |