

You are going on vacation to OUTER SPACE

Learning Target: *Understand the rules of exponents (i.e. power of product, product of a power). Understand the relationship between multiplication and positive exponents. Understand the relationship between multiplication and negative exponents.*



You are going on a vacation to the “Planet of the Exponents”. When you get there, the Exponents are up in arms because of all the silly tourists who keep breaking the laws of the land. They commission you to make a tourist brochure laying out all the laws of the planet. Your assignment is to

- (a) Explain all the rules
- (b) Come up with consequences if tourists break the rules (be creative)
- (c) AND to show the ways in which tourists have commonly broken the rules so that future tourists know not to do it again. You must explain the following laws in your brochures:
 - (1) The product rule
 - (2) The quotient rule
 - (3) The power to a power rule
 - (4) The distributive rule for products
 - (5) The distributive rule for quotients
 - (6) What a zero exponent is
 - (7) The two rules for negative exponents
- (d) Be as creative as you wish. You may include pictures or descriptions of the planet, just make sure to include all the math on the list above.
- (e) You may do this brochure on paper or electronically. If you do it on paper, make sure that your handwriting is legible and the brochure is well organized.
- (f) Make sure you are familiar with the rubric that the Exponents will be using to assess your brochure.



