# You Are Going on a Vacation to Outer Space!

You are going on a vacation to the "Planet of 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/book laying out all the laws of the planet. Your assignment is to:

1) Explain all the rules
2) Come up with consequences if the tourists break the rules (be creative)
3) AND show the ways in which tourists have commonly broken the rules so that the future tourists know not to do it again.

*You must explain and provide algebraic examples (i.e. use variables not just numbers) of all the following laws in your brochures/books:

   a) The product rule

   b) The quotient rule

   c) The power rule

   d) What a zero exponent is

   e) The two rules for negative exponents

   f) An explanation of scientific notation with both positive and negative exponents

**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.

**This electronic brochure/book will count as a test grade.

You will be working on this brochure/book in teams of two. Each team member will have one of the following roles:

-Layout Designer- This person will oversee the layout of the brochure and ensure that it incorporates all the creative requirements.

-Editor – This person will be in charge of all aspects of the writing style, vocabulary, punctuation, and grammar.

-Fact Checker – This person in charge of explanation of the Exponent Laws and will ensure that examples are presented for each rule.

-Problem Finder – This person is in charge of the common mistakes that are made with each rule.