



Weekly Sheet for 4th grade STEM

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Week # 6, October 3rd–October 7th, 2011

MATHEMATICS

Topics/Content/Skills: FACTORS

- Understand factors using rectangular arrays
- Determine if a 1-digit number is a factor of a given whole number by using division

	In Class	Homework Assignment
Monday	Test (Rounding off Numbers, Estimation of the answers in addition and subtraction, Newton’s Laws and Changing from Scientific Notation to Standard Notation and vice versa.	
Tuesday	<p>1) Understand factors using rectangular arrays</p> <ul style="list-style-type: none"> • Teacher will use 8 cubes to form a rectangular array and will ask students for the dimensions of the array (the number of columns and rows ($4 \times 2 = 8$) Explain that 8 is the product and 2 and 4 (the dimensions of the array) are the factors (8 can be divided by 2 and there will be no remainder therefore 2 is a factor of 8) • Students will be divided into groups and each group will be given 24 cubes and a square grid paper, students will be required to make as many different rectangle as they can and to write a multiplication equation for each array • Students will then list all the factors of 24 	
Wednesday	<p>1) Understanding factors</p> <ul style="list-style-type: none"> • Teacher will instruct students to find the factors of 2, 3, 4, 5, 6, 8, and 12, students who need the cubes to do so will be allowed to use them <p>2) Determine if a 1-digit number is a factor of a given whole number by using division</p> <ul style="list-style-type: none"> • Have students give One factor of 12 and allow them to explain why it is a factor of 12 (12 can 	Hw: List all the factors of: 1, 7, 11, 25, 30, 46, 98

	<p>be divided evenly by that number without any remainder)</p> <ul style="list-style-type: none"> Teacher will pick a number between 1 and 10 and ask whether this number is a factor of a number less than 100 (is 7 a factor of 79). Students will solve this by dividing 79 by 7 to see if there is a remainder (will be repeated several times) 	
Thursday	<p>Computer Lab Factor Games online http://www.coolmath-games.com/0-math-lines-xfactor/index.html</p>	

SCIENCE: ATOMIC PHYSICS

- Define, draw and label an atom
- List and differentiate the components of an atom including quark
- Define atomic number and mass number

	IN CLASS	HOMEWORK
Tuesday	<ol style="list-style-type: none"> 1) Define, draw and label an atom 2) List and differentiate the components of an atom including quark 3) Define mass number and atomic number <ul style="list-style-type: none"> • Teacher will draw on board an atom with parts labeled • Teacher will explain that atom is the building block of matter, everything (hold up a pencil, book, chalk etc) is made up of atom. Explain that atoms are made up of protons, nucleus and electrons and explain that quarks make up protons and neutrons. (HAND OUT WITH ALL THE NECESSARY INFORMATION 	

	WILL BE GIVEN)	
Wednesday	Each student will be given a handful of fruit loops cereal and a paper plate to model the parts of an atom. Each will be assigned an element with a relatively low atomic number. Choosing a color for each part (green=proton, etc.), they will glue each piece to the plate. To correspond with this model, they will attach a key (index card) to give further information about their atom.	