

**BEAUMONT INDEPENDENT SCHOOL DISTRICT**  
Grade 6 Science (One Page Overview) 2021-2022

<b>NINE WEEKS 1 (ARIEL 14 ALL CAPS)</b>	<b>NINE WEEKS 2</b>	<b>NINE WEEKS 3</b>	<b>NINE WEEKS 4</b>
<p><u>Science Practices</u> Safety Experimental investigations Models Data, analyzing data Tools</p> <p><u>Matter</u> States (Phases) Changing state Particle movement <b>*CALCULATE DENSITY</b> Physical properties</p> <p><u>Elements</u> Pure substances Compose the earth, living and non living Chemical symbols Building blocks <b>*COMPARE METALS, NONMETALS, AND METALLOIDS USING PHYSICAL PROPERTIES</b></p> <p><u>Compounds</u> Two or more elements Chemical reactions Chemical formulas Mixtures and solutions</p>	<p><u>Energy</u> <b>*COMPARE AND CONTRAST POTENTIAL KINETIC ENERGY</b> Give examples</p> <p><u>Energy Types</u> Forms Law of Conservation of Energy <b>*ENERGY TRANSFORMATIONS</b></p> <p><u>Thermal Energy</u> Energy transfers Conduction, convection, radiation Heat energy Thermal energy</p> <p><u>Energy sources</u> Advantages and disadvantages of energy resources</p>	<p><u>Gravity and Space</u> Physical properties Location of sun, Moon, planets, meteors, asteroids and comets, <b>*FORCE OF GRAVITY THAT GOVERNS THE SOLAR SYSTEM MOTION</b> History and future of space Exploration</p> <p><u>Motion</u> <b>*CALCULATE AVERAGE SPEED, USING DISTANCE AND TIME MEASUREMENT</b> Identify changes in position, and direction of an object when acted on by unbalanced forces</p> <p><u>Earth Processes</u> Model the composition of the earth's layers Classify rocks by their formation process Identify the major plate tectonics Describe how plate tectonics causes major geological events</p>	<p><u>Organisms</u> All organisms are composed of one or more cells The presence of a nucleus is used to determine if a cell is prokaryotic or eukaryotic Taxonomic classification and the current domains <b>*BASIC CHARACTERISTICS OF ORGANISMS, INCLUDING PROKARYOTIC OR EUKARYOTIC, UNICELLULAR, MULTICELLULAR, AUTOTROPHIC, OR HETEROTROPHIC, AND MODE OF REPRODUCTION</b></p> <p><u>Ecosystems</u> Abiotic and Biotic parts of an ecosystem Levels of organization within and ecosystem</p>

**\*ITEMS MARKED WITH AN ASTERISK, BOLD, HIGHLIGHTED AND ALL CAPPED ARE ITEMS THAT ARE TESTED ON THE 8<sup>TH</sup> GRADE TEST – STRAIGHT 6<sup>TH</sup> GRADE TEKS – STUDENTS MUST KNOW THESE AND CARRY THEM FORWARD TO THE 8<sup>TH</sup> GRADE**