



## 2nd Grade Science Year at a Glance (YAG)



First Semester	Second Semester
<p><b>1<sup>st</sup> Nine Weeks – 40 days</b> (August 19<sup>th</sup> – October 15<sup>th</sup>) (September 2<sup>nd</sup> – Labor day – No School) (October 14<sup>th</sup> – Staff Development)</p>	<p><b>3<sup>rd</sup> Nine Weeks – 45 days</b> (January 6<sup>th</sup> – March 17<sup>th</sup>) (January 20<sup>th</sup> – MLK – No School) (March 9<sup>th</sup> – 13<sup>th</sup> – Spring Break)</p>
<p><b><u><a href="#">Introduction: Working Like a Scientist (3 days)</a></u></b> <b><u><a href="#">Introducción: Trabajando como un científico</a></u></b> This unit allows for the establishment of science procedures, including safety and notebooking, as well as what it means to be a scientist. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.8A</a></p> <p><b><u><a href="#">Unit 01: Investigating Matter (21 days)</a></u></b> <b><u><a href="#">Investigando la materia</a></u></b> Students classify matter by physical properties and states of matter. Students compare changes in materials caused by heating and cooling and demonstrate things can be done to materials to change their physical properties. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.2E</a>, <a href="#">2.3A</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.5A</a>, <a href="#">2.5B</a>, <a href="#">2.5C</a>, <a href="#">2.5D</a></p> <p><b><u><a href="#">Unit 02: Investigating Energy (11 days)</a></u></b> <b><u><a href="#">Investigando energía</a></u></b> Students explore the effects on objects by increasing or decreasing amounts of light, heat (thermal), and sound energy. Furthermore, students communicate and discuss their observations, and record data in their notebooks. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.2E</a>, <a href="#">2.2F</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.6A</a></p>	<p><b><u><a href="#">Unit 05: Investigating Patterns in Weather and the Appearance of the Moon (25 days)</a></u></b> <b><u><a href="#">Investigando patrones en el clima y la apariencia de la luna</a></u></b> This unit addresses patterns in weather data, the importance of weather and seasonal information in decision making, and patterns of the appearance of the Moon. The intent of the unit is to focus on the big idea of patterns over time. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.2E</a>, <a href="#">2.2F</a>, <a href="#">2.3B</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.4B</a>, <a href="#">2.8A</a>, <a href="#">2.8B</a>, <a href="#">2.8C</a></p> <p><b><u><a href="#">Unit 06: Investigating Organisms and Environments (20 days)</a></u></b> <b><u><a href="#">Investigando organismos y ambientes</a></u></b> Students identify the basic needs of plants and animals and factors in the environment, including that temperature and precipitation affect growth and behavior of living organisms. Additionally, students compare the ways living organisms depend on each other and their environments, such as through food chains. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.2E</a>, <a href="#">2.2F</a>, <a href="#">2.3A</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.9A</a>, <a href="#">2.9B</a>, <a href="#">2.9C</a></p>
<p><b>2<sup>nd</sup> Nine Weeks – 43 days</b> (October 16<sup>th</sup> – December 20<sup>st</sup>) (November 25<sup>th</sup> – 29<sup>th</sup> – Thanksgiving Break) (December 23<sup>rd</sup> – January 3<sup>rd</sup> – Holiday Break)</p>	<p><b>4<sup>th</sup> Nine Weeks – 45 days</b> (March 18<sup>th</sup> – May 21<sup>rd</sup>) (April 10<sup>th</sup> – Good Friday – No School) (April 24<sup>th</sup> – Battle of Flowers – No School) (May 25<sup>th</sup> – Memorial Day – No School)</p>
<p><b><u><a href="#">Unit 03: Investigating Force and Motion (9 days)</a></u></b> <b><u><a href="#">Investigando fuerza y movimiento</a></u></b> Students engage in descriptive investigations to trace and compare patterns of movement of objects over time, and observe and identify how magnets are used in everyday life. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.2E</a>, <a href="#">2.2F</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.6B</a>, <a href="#">2.6C</a></p> <p><b><u><a href="#">Unit 04: Investigating Earth Materials and Natural Resources (21 days)</a></u></b> <b><u><a href="#">Investigando materiales terrestres y recursos naturales</a></u></b> Students observe, describe, and compare rocks by size, texture, and color. They also identify and compare the properties of natural sources of freshwater and saltwater. Additionally, students distinguish between natural and manmade resources. <a href="#">2.1A</a>, <a href="#">2.1B</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.2E</a>, <a href="#">2.2F</a>, <a href="#">2.3A</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.4B</a>, <a href="#">2.7A</a>, <a href="#">2.7B</a>, <a href="#">2.7C</a></p>	<p><b><u><a href="#">Unit 06: Investigating Organisms and Environments (cont.)</a></u></b></p> <p><b><u><a href="#">Unit 07: Investigating Physical Characteristics and Behaviors of Organisms (14 days)</a></u></b> <b><u><a href="#">Investigando las características físicas y los comportamientos de los organismos</a></u></b> Students observe, record, and compare how the physical characteristics and behaviors of animals help them meet their basic needs, and how the physical characteristics of plants help them meet their basic needs. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2E</a>, <a href="#">2.2F</a>, <a href="#">2.3A</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.4B</a>, <a href="#">2.10A</a>, <a href="#">2.10B</a></p> <p><b><u><a href="#">Unit 08: Investigating Insect Life Cycles (10 days)</a></u></b> <b><u><a href="#">Investigando ciclos de vida de insectos</a></u></b> Students engage in descriptive investigations of the unique stages that insects undergo during their life cycle. Furthermore, students communicate and discuss their observations and record data in their notebooks. Students consider environmentally appropriate and responsible practices with resources during investigations. <a href="#">2.1A</a>, <a href="#">2.2A</a>, <a href="#">2.2B</a>, <a href="#">2.2C</a>, <a href="#">2.2D</a>, <a href="#">2.2E</a>, <a href="#">2.2F</a>, <a href="#">2.3B</a>, <a href="#">2.3C</a>, <a href="#">2.4A</a>, <a href="#">2.10C</a></p>