Science 3 – 5 for use with NGSS 2013:

Earth and Space Science: Earth's Place in the Universe

Seasons, Days, and Years

Students	Learning Continuum Statements:
Students:	**RIT 181-190:** • Describes how Earth's axial tilt affects amount of daylight
Students:	**RIT 191-200:** • Describes the cause of day and night • Uses observed patterns to predict positions of the Sun in the sky at different times of day • Recognizes that seasons in the northern and southern hemispheres are opposite • Analyzes and interprets data to predict the amount of daylight throughout the year • Describes how Earth's axial tilt affects amount of daylight • Describes the causes of seasons • Describes how Earth's axial tilt affects temperature, using a model of the Sun-Earth
Students:	**RIT 201-210:** • Applies mathematical concepts to determine patterns of sunrise and sunset to answer questions and solve problems • Determines seasonal patterns of daylight from data • Describes how Earth's axial tilt affects temperature on Earth • Describes how Earth's axial tilt affects seasons • Describes the cause of day and night • Relates rotation of planets to length of day • Describes how Earth's axial tilt affects seasons, using a model of the Sun-Earth • Analyzes and interprets data to predict the amount of daylight throughout the year • Describes how Earth's axial tilt affects amount of daylight • Uses models of the Sun-Earth to show Earth's axial tilt • Describes the causes of seasons • Describes how Earth's axial tilt affects temperature, using a model of the Sun-Earth • Describes relative amounts of daylight throughout the year

Students:	**RIT 211-220:** • Describes how Earth's axial tilt affects seasons • Describes how Earth's axial tilt affects the amount of daylight, using a model of the Sun-Earth • Relates rotation of planets to length of day • Describes how Earth's axial tilt affects seasons, using a model of the Sun-Earth • Analyzes and interprets data to predict the amount of daylight throughout the year • Uses models of the Sun-Earth to show Earth's axial tilt • Describes how Earth's axial tilt affects temperature, using a model of the Sun-Earth • Describes relative amounts of daylight throughout the year
Students:	**RIT 221-230:** • Describes how the amount of daylight changes throughout the year, using a model of the Sun-Earth • Describes how Earth's axial tilt affects seasons • Describes how Earth's axial tilt affects seasons, using a model of the Sun-Earth • Uses models of the Sun-Earth to show Earth's axial tilt • Describes how Earth's axial tilt affects temperature, using a model of the Sun-Earth
Students:	**RIT 231-240:** • Describes why some planets do not have seasons • Identifies seasons using a Sun-Earth model