

NATURAL SCIENCES

GRADE 7 TERM 4

Tracker



| Week 1 | | | | | | | | | | | |
|--|---------------|----------------|--|--|--|--------------------------------------|----------------|--|-------|--|--|
| CAPS Concepts and Activities | CAPS Page no. | Year: | | | | | Year: | | | | |
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| | | Date Completed | | | | | Date Completed | | | | |
| Week 1 Lesson A | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> The Earth receives energy from the Sun in the form of heat and light (solar energy) | 31 | | | | | | | | | | |
| Week 1 Lesson B | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> The Earth spins on its axis once per day The Earth's axis is an imaginary line that goes through the centre of the Earth from the north pole to the south pole The Earth's axis is not vertical, it is tilted from the vertical by an angle of 23,5° | 31 | | | | | | | | | | |
| Week 1 Lesson C | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> The Sun radiates heat and light in all directions The tilt of the Earth's axis does not change as the Earth orbits around the Sun | 31 32 | | | | | | | | | | |
| Reflection | | | | | | | | | | | |
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| Week 2 | | | | | | | | | | | |
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| Week 2 Lesson A | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> When the solar energy falls more directly on the southern hemisphere, the solar energy is spread over a smaller area and it is summer in the southern hemisphere | 32 | | | | | | | | | | |
| Week 2 Lesson B | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> When the solar energy falls obliquely (at an extreme angle) on the southern hemisphere, the solar energy is spread over a wider area and it is winter in the southern hemisphere | 31 | | | | | | | | | | |
| Week 2 Lesson C | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> Due to the tilt of the Earth, the intensity of the solar energy (amount per unit area) that reaches different parts of the Earth changes through the year | 31 | | | | | | | | | | |
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| Week 3 | | | | | | | | | | | |
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| Week 3 Lesson A | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> Differing intensities of solar energy reaching the southern and northern hemispheres through the year lead to the four seasons | 31 | | | | | | | | | | |
| Week 3 Lesson B | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the Earth's seasons <ul style="list-style-type: none"> The length of the day also depends upon the season. In summer, days are longer than in winter. This is also caused by the tilt of the Earth's axis | 31 | | | | | | | | | | |
| Week 3 Lesson C | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the life on Earth <ul style="list-style-type: none"> Plants absorb light from the Sun and produce energy-containing food (refer to Grade 8) | 31 | | | | | | | | | | |
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| Week 4 | | | | | | | | | | | |
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| Week 4 Lesson A | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Solar energy and the life on Earth <ul style="list-style-type: none"> All plants and animals depend on this process for their energy (refer to Grade 8) The Sun's energy sustains all life on Earth | 31 | | | | | | | | | | |
| Week 4 Lesson B | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Stored solar energy <ul style="list-style-type: none"> Dead plants and animals can eventually form coal, oil or gas (fossil fuels) after millions of years This happens when: <ul style="list-style-type: none"> the remains of dead plants and animals are covered by layers of mud and soil the layers press down on these remains more layers lead to increased pressure increased pressure, over long periods of time, changes these remains into coal, oil or gas The coal, oil and gas store energy from the Sun that was absorbed by plants millions of years ago | 31 | | | | | | | | | | |
| Week 4 Lesson C | | | | | | | | | | | |
| Topic: Relationship of the Sun to the Earth Content & Concepts: Stored solar energy <ul style="list-style-type: none"> Humans are using this store of energy (coal, oil and gas) faster than it is being formed (non-renewable resource) | 31 | | | | | | | | | | |

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| Week 5 | | | | | | | | | | | |
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| Week 5 Lesson A | | | | | | | | | | | |
| Topic: Relationship of the Moon to the Earth Content & Concepts: Relative positions <ul style="list-style-type: none"> • The Moon revolves around the Earth in its orbit | 31 32 | | | | | | | | | | |
| Week 5 Lesson B | | | | | | | | | | | |
| Topic: Relationship of the Moon to the Earth Content & Concepts: Gravity <ul style="list-style-type: none"> • The Moon is held in its orbit around the Earth by the pull of the Earth's gravity | 32 | | | | | | | | | | |
| Week 5 Lesson C | | | | | | | | | | | |
| Topic: Relationship of the Moon to the Earth Content & Concepts: Gravity <ul style="list-style-type: none"> • Gravity is the tendency of all objects to attract (pull) each other • The Moon also has its own gravity | 32 33 | | | | | | | | | | |
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| Week 7 Lesson A | | | | | | | | | | | |
| Topic: Historical development of astronomy Content & Concepts: Early indigenous knowledge <ul style="list-style-type: none"> The Moon and Sun and stars seem to move in predictable patterns <ul style="list-style-type: none"> a year (a time period that includes the four seasons) a month (a time period from one full moon to the next full moon) a day (a time period from one sunrise to the next sunrise) People observed these patterns and used them to measure time and develop different calendars | 34 | | | | | | | | | | |
| Week 7 Lesson B | | | | | | | | | | | |
| Topic: Historical development of astronomy Content & Concepts: Early indigenous knowledge <ul style="list-style-type: none"> People used these patterns in different ways such as to denote time for planting, finding direction and special holy days people passed this knowledge on using stories | 34 | | | | | | | | | | |
| Week 7 Lesson C | | | | | | | | | | | |
| Topic: Historical development of astronomy Content & Concepts: Modern developments <ul style="list-style-type: none"> People have made and continue to make important discoveries in astronomy | 34 | | | | | | | | | | |
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| Week 8 | | | | | | | | | | | |
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| Week 8 Lesson A | | | | | | | | | | | |
| Topic: Historical development of astronomy Content & Concepts: Modern developments <ul style="list-style-type: none"> • People have made and continue to make important discoveries in astronomy • Copernicus suggested that the Sun is at the centre of the Solar System (1514) • Galilei made the first telescope to observe planets and their moons (1610) • Kepler used mathematics to describe orbits accurately (1609) • Newton showed that gravity held the Solar System together (1687) | 34 | | | | | | | | | | |
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| Topic: Historical development of astronomy Content & Concepts: Modern developments <ul style="list-style-type: none"> • People have made and continue to make important discoveries in astronomy • Copernicus suggested that the Sun is at the centre of the Solar System (1514) • Galilei made the first telescope to observe planets and their moons (1610) • Kepler used mathematics to describe orbits accurately (1609) • Newton showed that gravity held the Solar System together (1687) | 34 | | | | | | | | | | |
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| Week 9 | | | | | | | | | | | |
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| Week 9 Lesson A | | | | | | | | | | | |
| Topic: Revision and Study | 26-34 | | | | | | | | | | |
| Week 9 Lesson B | | | | | | | | | | | |
| Topic: Revision and Study | 26-34 | | | | | | | | | | |
| Week 9 Lesson C | | | | | | | | | | | |
| Topic: Revision and Study | 26-34 | | | | | | | | | | |
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| Week 10 | | | | | | | | | | | |
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