Answers

Theme 8: What Makes Us Think?
Chapter - 11: Movement of the Earth

Main Coursebook

Re-KAP

Kinaesthetic: Accept all relevant responses

Pictorial

1. land and water
2. air
3. Land
4. Water

Interacting better

Accept all relevant responses.

Understanding better (Page 76)

1. Revolution
2. Rotation
3. 365 days and 6 hours

Learning better:

A. 1. a 2. a 3. b
4. b 5. c

B. 1. tilted 2. rotation
3. day, night 4. hot
5. daytime

C. 1. Rotation and revolution
2. An orbit is the path an object follows as it moves around another object. For example, Earth moves around Sun in a fixed path and this is known as revolution.
3. Rotation and revolution of Earth around the Sun causes different seasons.

D. 1. An axis is an imaginary line around which an object spins or turns. It passes through the centre of an object.The Earth also has an axis. It passes through the North Pole and the South Pole. The axis of the Earth is slightly tilted.
2. The movement of the Earth on its axis is called rotation. The Earth completes one rotation in 24 hours. This is the duration of a single day. As the Earth rotates, the part of the Earth that faces the Sun gets light. And therefore, experiences daytime. The other half of the Earth does not get light and experiences night.

Creating Better: Accept all relevant responses

Thinking Better: The extra 6 hours are added up every year. After 4 years, they make 24 hours, which is 1 extra day. That's why we have a leap year with 366 days every 4 years.

Choosing Better: 1. doing yoga

Students' Worksheets

Worksheet 1

A. 1. Axis 2. North pole
3. Rotation 4. Revolution
5. Seasons

B. 1. b 2. a 3. d 4. e 5. c

C. 1. True 2. False 3. True 4. False 5. False

Worksheet 2

A. 1. axis 2. North pole 3. rotation
4. 365 days and 6 hours 5. oval

B. 1. AXIS 2. TOP 3. ROTATION
4. SUN 5. REVOLUTION

C. 1. An axis is an imaginary line on which Earth rotates.
2. The movement of the Earth on its axis is called rotation.
3. Rotation causes day and night.
4. 24 hours.
5. The movement of the Earth around the Sun is called revolution.

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Developing better

A. **English:**
1. in 2. Around

B. **Maths:**
Raima's poster is 20,000 centimetre square bigger in size.

C. **Social Studies:**
lattus

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Making better

Accept all relevant responses.

Answers

Theme 8: What Makes Us Think?
Chapter 12: Going into Space

Main Coursebook

Re-KAP

Kinaesthetic: Accept all relevant responses

Pictorial:



Rocket | Kalpana Chawla | Moon

Interacting better: Accept all relevant responses.

Understanding better (Page 82)

1. Force of gravity
2. Craters

Learning better:

A. 1. b 2. c 3. a
4. c 5. b

B. 1. Astronauts 2. spacecraft
3. 1969 4. Moon
5. Indian

C. 1. The suits of the astronauts protect them from harmful rays and also have a supply of oxygen.
2. The surface of the Moon is not smooth. It has huge spots. These spots are called craters.
3. Sunita Williams

D. 1. We may travel anywhere on the Earth,but it is not easy to travel into space.Throw a stone up in the air, it will always fall back to the ground. This pull or force of attraction is called the force of gravity. It is not easy to get out of the Earth's pull and escape into space. A space rocket is used to carry a spacecraft into space.
2. Kalpana Chawla was the first woman of Indian origin to go into space. She went in the space shuttle, Columbia in 1997. She went into space again in January 2003.

Creating Better: Accept all relevant responses

Thinking Better: Yes, Neil Armstrong's footprints would still be on the Moon because there is no wind or rain to erase them. The Moon doesn't have air like Earth, so the footprints can stay for a very long time.

Choosing Better: 1. Share ideas with her friends.

Students' Worksheets

Worksheet 1

A. 1. air 2. space 3. twinkle
4. Sputnik 1 5. water

B. 1. true 2. false 3. false
4. true 5. false

C. 1. d 2. c 3. a
4. e 5. b

Worksheet 2

A. 1. downwards 2. A spacecraft
3. Rakesh Sharma 4. can
5. air

B. 1. Earth 2. vehicle
3. Moon 4. Chandrayaan-1
5. Rakesh Sharma

C. 1. gravity 2. Neil Armstrong
3. Sunita Williams 4. craters
5. Kalpana Chawla

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Developing better

A. **English:**
1. Rihani asks Sujal, "Do you want to live on the Moon?"
2. Sujal says, "Yes Rihani, I would love to. I could wave to you from above."

B. **Maths**
750 grams is equal to 0.75 kilograms.

C. **Social Studies:**
1. Chess ☐ 2. Football ✓
3. Boxing ☐

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Making better
Accept all relevant responses.