

NATURAL SCIENCES GRADE 8

TOPIC: SOLAR SYSTEM & BEYOND THE SOLAR SYSTEM Part I

INFORMAL TEST 4.1 (2025)

MARKS: 15

Name and Surname: _____

Gr. 8 _____

SECTION A

QUESTION 1

Choose a word from COLUMN B that matches the description in COLUMN A. Write only the letter (A – H) next to the question number in the open spaces below.

| COLUMN A | | COLUMN B | |
|----------|--|----------|----------------|
| 1.1 | The Sun with its eight planets orbiting around it. | A | Rotation |
| 1.2 | What an asteroid is called when it enters Earth's atmosphere and is seen as a "shooting star". | B | Solar system |
| 1.3 | The planet known as the Morning Star or Evening Star. | C | Venus |
| 1.4 | 300 000 kilometres per second. | D | Meteor |
| 1.5 | This motion causes day and night on Earth. | E | Asteroid |
| | | F | Speed of light |
| | | G | Saturn |
| | | H | Galaxy |
| | | I | Acceleration |

ANSWERS:

1.1 _____

1.2 _____

1.3 _____

1.4 _____

1.5 _____

(5)

SECTION B

Answer the following questions by filling in the correct answer in the spaces provided.

QUESTION 2

2.1 Name the TWO planets in our solar system that are located between Jupiter and Neptune.



(2)

2.2 Give the NAME of the biggest planet in the solar system

(1)

2.3 Which planet in our solar system is known as the red planet?

(1)

2.4 Information on the features of a few planets in our solar system is given below. The unit in which the data is measured is indicated in brackets below the heading of each column. Study the table and answer the questions that follow.

| Planet | Distance from the Sun (million km) | Radius of planet (km) | Time taken to orbit the Sun (Earth days) | Time to rotate around its own axis (Earth hours) | Average surface temperature of planet (°C) |
|---------|------------------------------------|-----------------------|--|--|--|
| Saturn | 1,427 | 58,232 | 10,759 | 10.7 | -185 |
| Uranus | 2,871 | 25,362 | 30,687 | 17.2 | -224 |
| Neptune | 4,498 | 24,622 | 60,190 | 16.1 | -214 |

2.4.1 Which one of the planets in table is the smallest?

(1)

2.4.2 Which one of the planets has the shortest year?

(1)

2.4.3 Use the data in the table and explain your answer in question 2.4.2

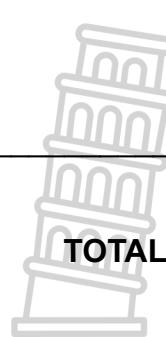
(2)

2.4.4 What is the name of the galaxy in which our solar system is found?

(1)

2.4.5 What is the shape of this galaxy?

(1)


 TOTAL MARK: 15

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MEMORANDUM

SECTION A

QUESTION 1

1.1 B✓
 1.2 D✓
 1.3 C✓
 1.4 F✓
 1.5 A✓

(5)

SECTION B

QUESTION 2

2.1 Saturn✓
 Uranus✓ (2)

2.2 Jupiter✓ (1)

2.3 Mars✓ (1)

2.4.1 Neptune✓ (1)

2.4.2 Saturn✓ (1)

2.4.3 Saturn takes the shortest time✓ (10,759 earth days) to orbit around the Sun✓, therefore will have the shortest year. (2)

2.4.4 Milky Way✓ (1)

2.4.5 Spiral✓ shaped (1)



TOTAL MARK: 15