

When you are taking this exam, remember these important things:

- Read each question carefully and think about the answer before you write.
- Number your answers correctly.
- Rule off between each section.
- If you finish early, you must check your work.

1. INVESTIGATIONS

Match the word in Column A to the correct meaning in Column B. Write the correct LETTER only. (3)

1.1 AIM	A. What you learned ✓
1.2 HYPOTHESIS	B. Prediction
1.3 APPARATUS	C. Observation ✓
1.4 METHOD	D. Goal
1.5 RESULTS	E. Step-by-step procedure
1.6 CONCLUSION	F. Equipment ✓

SUBTOTAL 3

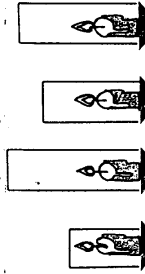
2. STORED ENERGY IN FUELS

2.1 Fossil fuels like coal were made from prehistoric plants. Explain the formation of fossil fuels in a paragraph. Begin your paragraph with the sentence below: (4)

Plants got their energy from the sun and stored it in their bodies.

2.2 List the three things needed for a fire to burn. (3)

2.3 You burned a candle and put four different sized glass jars over it. What were your main conclusions in this investigation? Explain your answer. (2)



2.4 If a fire breaks out at your school, what is the best thing for children to do? (2)

2.5 Explain why a fire drill is important. (1)

SUBTOTAL 12

3. ENERGY AND ELECTRICITY

3.1 Jenna and Helaine set up a circuit with two cells and two light bulbs. The bulbs did not light up when they had finished connecting up their circuit. Suggest TWO things that they could do to try to get the bulbs to light up. (2)

3.2 Complete the sentences by using the words below. Write the WORDS only.

petrol light kinetic potential sound

3.2.1 A light bulb changes electricity into _____ energy.

3.2.2 A car moves because it uses the energy from _____.

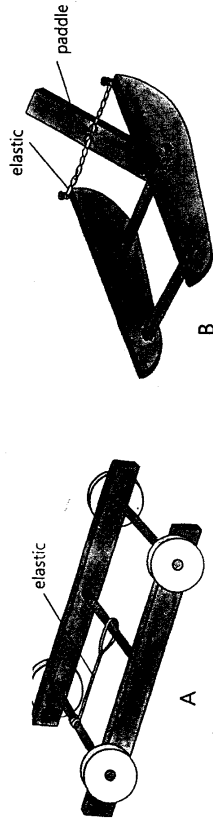
3.2.3 A radio turns electricity into _____ energy.

3.2.4 A wind turbine uses the _____ energy of the air to turn. Then it makes electricity. (4)

SUBTOTAL 6

4. ENERGY AND MOVEMENT

Look at the models that use elastic to move.



A is a land car. If you turn the one set of wheels, the elastic stretches. When you release the elastic, the wheels turn and the land car moves forward. B is a water car. If you turn the paddle the elastic twists. When you release the elastic, the paddle turns and the water car moves forward in the water.

4.1 What happens to the elastic when you turn the wheel in A? (1)

4.2 What kind of energy does the elastic have now? (1)

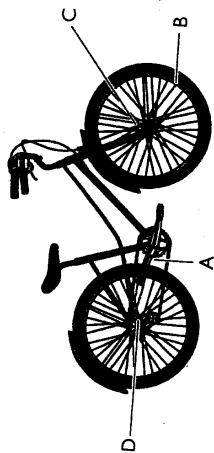
4.3 What happens to the elastic when you turn the paddle in B? (1)

4.4 What type of energy can be seen when you let go of the paddle in car B? (1)

SUBTOTAL 4

5. SYSTEMS FOR MOVING THINGS

Look at the picture of the bicycle below:



5.1 Write down the letter of the label which points to the wheel. (1)

5.2 Write down the letter of the label which points to the axle. (1)

5.3 Name the type of axle found in a bicycle. (1)

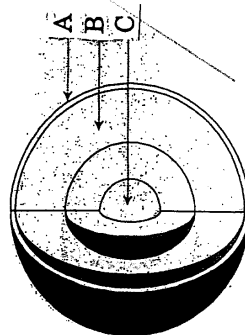
5.4 Give a reason why a wheel needs an axle. (1)

5.5 What is the difference between a fixed and turning axle? (2)

SUBTOTAL 6

6. PLANET EARTH

6.1 Look at the diagram of the Earth and provide labels for A, B and C. (3)



6.2 What do we call the movements of the Earth around the Sun? (1)

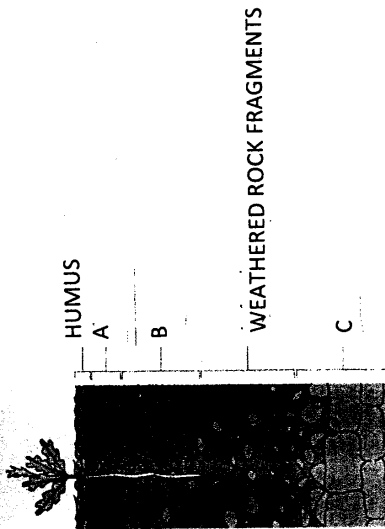
6.3 What is the name of the pathway the Earth moves around the Sun in? (1)

6.4 How long does it take the Earth to revolve around the Sun once? (1)

SUBTOTAL 6

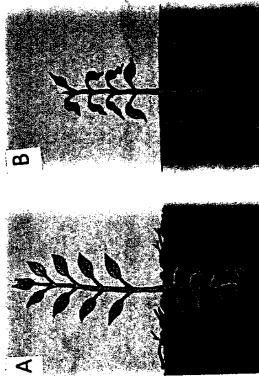
7. SURFACE OF THE EARTH

7.1 Look at the diagram below and provide labels: (3)



7.2 What is humus composed of? (1)

7.3 Look at the picture below of two different plants growing. (1)



The one plant is healthier than the other plant. This is largely due to the type of soil which was used for each plant. Provide the possible type of soil used for each plant AND provide a reason for your answer. (4)

SUBTOTAL 8

TOTAL 45