

**PART one: Reading and Interpreting****Read the text carefully then do the activities**

How many things can you see in the night sky? A lot! On a clear night you might see the Moon, some planets, and thousands of sparkling stars.

You can see even more with a telescope. You might see stars where before you only saw dark space. You might see that many stars look larger than others. You might see that some stars that look white are really red or blue. With bigger and bigger telescopes you can see more and more objects in the sky. And you can see those objects in more and more detail.

But scientists believe there are some things in the sky that we will never see. We won't see them with the biggest telescope in the world, on the clearest night of the year.

That's because they're invisible. They're the mysterious dead stars called black holes.

You might find it hard to imagine that stars die. After all, our Sun is a star. Year after year we see it up in the sky, burning brightly, giving us heat and light. The Sun certainly doesn't seem to be getting old or weak. But stars do burn out and die after billions of years. As a star's gases burn, they give off light and heat. But when the gas runs out, the star stops burning and begins to die.

As the star cools, the outer layers of the star pull in toward the center. The star squashes into a smaller and smaller ball. If the star was very small, the star ends up as a cold, dark ball called a black dwarf. If the star was very big, it keeps squashing inward until it's packed together tighter than anything in the universe.

Imagine if the Earth were crushed until it was the size of a tiny marble. That's how tightly this dead star, a black hole, is packed. What pulls the star in toward its center with such power? It's the same force that pulls you down when you jump- the force called gravity. A black hole is so tightly packed that its gravity sucks in everything-even light. The light from a black hole can never come back to your eyes. That's why you see nothing but blackness.

So the next time you stare up at the night sky, remember: there's more in the sky than meets the eye! Scattered in the silent darkness are black holes- the great mystery of space.

**1- Say whether the following statements are 'true' or 'false' according to the text:**

- a- In the night sky you can see the Moon, some planets and sparkling stars.
- b- With a telescope you can see less than what you can see with your eyes.
- c- With the biggest telescope, we can see every thing in the sky.
- d- Stars burn out and die after billions of years.

**2- Answer the following questions according to the text: choose a,b,c, or d**

A) According to the article, what causes a star to die.

- a- As its gases run out, it cools down.
- b- It collides with other stars.
- c- It can only live for about a million years.
- d- As it gets hotter and hotter, it explodes.

B) In what ways is our Sun the same as other stars? How is it different from a dead star?

C) Which of the following statements is not a fact :

- a- Black holes are dead stars.
- b- Black holes have gravity.
- c- Black holes are invisible.
- d- There is nothing as mysterious as a black hole.

D) What happens after a star dies?

- a- It becomes invisible.
- b- It falls to Earth.
- c- It burns up all of its gases.
- d- It becomes brighter and easier to see.

E) What might happen to our sun billions of years from now?

F) Why can't you see light when you look at a black hole?

- a- Because most black holes are so far away.
- b- Because the gravity of a black hole is so strong that it sucks the light inward.
- c- Because as the star's gases burn, it stops giving off heat and light.
- d- Because as a star cools, its outer layers pull in towards its center.

**3- In which paragraph is the reason why a star dies mentioned?**

**4- What or who do the underlined words refer to in the text?**

Them (§3)=.....

It (§5)=.....

Its= (§8)

**Text Exploration:**

1 - Match the words with their synonyms:

Words	Synonyms
Mysterious	Return
Give off	Unseen
Come back	Strange
Invisible	Emit

2 - Complete the table as shown in the example:

Noun	Verb	Adjective
Imagination	Imagine	Imaginable
.....	Believe	.....
.....	.....	Dead
Darkness	.....	.....

3 - Join the following pairs of sentences using the words given: ' because' 'Although'

- The sun is a rather ordinary star. It is very important to us.
- The number of artificial satellites is increasing. They are very useful.

4 - Ask the questions that the underlined words answer:

- a- Scientists believe there are things in the sky we will never see.
- b- Stars do burn out and die after billions of years.

**Part two: Written Expression:**

Choose only one topic:

**Topic one:**

- I- Use the notes below to write a composition of about 100 words on the importance of space research.
- Technology such as the news on television is made available by satellites.
- What would life be like without the Internet or cell phones?
- Space exploration can save many lives from disasters: earthquakes, Tsunamis, hurricanes and floods.

**Topic two:**

Some people think that space research is a waste of time and money. Do you agree or disagree? Why?.

## Correction

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### Subject 2

1- 'true' / 'false' statements:

a- True b- false c- false d- true (02pts)

2- Comprehension questions:

a- As its gases run out, it cools down. (0.5pt)

b- Our sun is a star giving us heat and light. (01pt)

- The sun certainly doesn't seem to be getting old or weak  
But stars do burn out and die after billions of years.

c- Black holes are invisible. (0.5pt)

d- It burns up all of its gases. (0.5pt)

e- It might burn out and die. (0.5pt)

f- Because as the star's gases burn, it stops giving off heat and  
light. (0.5pt)

3- In paragraph six. (0.5pt)

4- Reference words:

Them= some- things in the sky.

It= our sun/ Its = a black hole. (1.5pt)

### Text exploration:

(1.5pt)

Words	Synonyms
Mysterious	Strange
Give off	Emit
Come back	Return

(03pts)

Noun	Verb	Adjective
Belief	Believe	Believable
Death	Die	Dead
Darkness	Darken	Dark

### Joining the sentences:

- Although the sun is a rather ordinary star, it is very important to us. (01pt)
- The number of artificial satellites is increasing because they are very useful. (01pt)

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To ask questions on the underlined words:

- a) What do scientists believe? (01pt)
- b) When do stars burn out and die? (01pt)

**Part two: Written Expression (04pts)**

Content

coherence



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