

**For Teachers:** Please have the students read the sentences one at a time and correct their pronunciation of each sentence then have them repeat after you. Wait until after they read the sentence (use the number in place of the missing word) to have the students choose the correct answer to fill in the blank. When the students finish the article, move on to the further questions.



3[A] – Lights Out

10.2(3A)A2E

- When we hear the word "pollution," we generally think of the damage to the environment caused by chemicals and other substances.
- Recently, however, another type of pollution has begun to attract attention —light pollution. This refers to any negative effect of artificial light on the environment. According to experts, artificial light is doing damage both to ( 26 ) and to human beings.
- \*Choose the correct answer to fill in the blank from these choices.
- (26) 1 leisure 2 industry 3 nature 4 culture

**Further Questions&A**\*Ask student to answer the question on their own at first. If the student can't answer correctly, have him look at the last page and read the "example answer" for the question. Have the student try to memorize the answer, if it's too long or difficult, you should divide the sentence into 2 or 3 parts to make it easier to remember. Once they have memorized the answer, the teacher should ask the question one last time so that the student can practice answering. Also if you find any mistakes, please mark the page and let me know ASAP.

- 1)-26 What is pollution? 汚染とはなんですか。
- Pollution is something made by humans that does damage to the environment.
- 2)-26 What is light pollution? 光害とはなんですか。
- Any negative effect of artificial light on the environment.
- The first people to become aware of light pollution were scientists who study the stars.
- They noticed that it was becoming more and more difficult to see stars at night because of all the light given off by cities. Light pollution, though, does not only make it harder for us to see the stars.
- It also harms our health by interrupting sleep and sometimes even interfering with the body's ability to produce the chemicals needed to stay healthy. It also affects wildlife, causing animals to become ( 27 ).
- For example, artificial lights can make it difficult for baby turtles to find the ocean after they are born, and as a result, many of them die.
- Choose the correct answer to fill in the blank from these choices.

14. (27) 1 confused 2 lonely 3 peaceful 4 independent

Further Questions&A

15. 3)-27 What did scientists who study the stars first notice about light pollution?

16. 星を研究している人たちが最初に気が付いた光害はなんでしたか。

17. They noticed that it was becoming more and more difficult to see stars at night (because of the light given off by cities).

18. 4)-27 How does light pollution harm our health? どのように光害は私たちの健康を害するのですか。

19. By interrupting sleep.

20. Sometimes even interfering with the body's ability to produce

the chemicals needed to stay healthy.

21. In response to these problems, an international movement is now trying to (28) the effects of artificial light.

22. An organization called International Dark-Sky Association is leading the way by encouraging the protection of areas of the sky from light pollution.

23. The organization is also trying to persuade governments to use public lighting more efficiently.

24. \*Choose the correct answer to fill in the blank from these choices.

25. (28) 1 exchange 2 reduce 3 ignore 4 preserve

Further Questions&A

26. 5)-28 Who is encouraging the protection of areas of the sky from light pollution?

27. 誰が光害から空の領域の保護をする事を奨励していますか。

28. An organization called International Dark-Sky Association.

29. 6)-28 How does International Dark-Sky try to protect areas of the sky?

30. International Dark-Sky はどのようにして空の領域を守ろうとしていますか。

31. By trying to persuade governments to use public lighting more efficiently.

32. At the present, much of the light we produce is not actually needed.

33. Creating less light would not only lead to less light pollution, but it would also help the environment in other ways.

34. In the United States, for example, it is estimated that 2 million barrels of oil are used every day for the production of (29) light.

35. Stopping this waste of fuel would both save money and

少(すく)なくする 量(りょう) 温室効果(おんしつこうか)ガス 放出(ほうしゅつ)させる  
 lessen the amount of greenhouse gases being released into the air.

36. \*Choose the correct answer to fill in the blank from these choices.

37. (29) 1 unofficial 2 temporary 3 ordinary 4 unnecessary

Further Questions & Answers TOEIC English Teachers Or Call

38. 7)-29 How would creating less light help ?

39. 光を少なくすることでどのような手助けになりますか。

40. We would create less light pollution.

41. Countries would save oil used for the production of light.

42. 8)-29 What are some examples of unneeded light?

43. 例としてあげられる unnecessary 光はなんですか。

44. Store signs that are on when the store isn't open.

45. Street lights on rarely used streets.

46. Traffic lights late at night when there is little traffic .

47. Apartment or house entry lights that are on all night long.

Vocabularies: Try to memorize these words yourself without looking at the Japanese translations.

For Teachers: Have the student read the word in English, correct their pronunciation then say it together. Then have the student say it in Japanese before saying again in English. After you have done this for each line, go back to the first word and have the student translate it.

48. (26) 1 leisure 2 industry 3 nature 4 culture  
 49. (27) 1 confused 2 lonely 3 peaceful 4 independent  
 50. (28) 1 exchange 2 reduce 3 ignore 4 preserve  
 51. (29) 1 unofficial 2 temporary 3 ordinary 4 unnecessary

Example sentences: \*It must take a long time but Try to use these vocabularies one by one in the sentences of your original one. Teacher must show them your for example sentence before ask.

52. (26) 1 Your dry cleaning is ready, so please drop by and pick it up at your leisure.

53. 2 The manufacturing industry is very important to the economy.

54. 3 We like to go camping every now and then to be surrounded by nature.

55. 4 Calligraphy and tea ceremonies are part of traditional Japanese culture .

56. (27) 1 I am confused by the new grammar .

57. 2 I often feel lonely when I am home alone .

58. 3 This neighborhood is not very exciting, but at least it is peaceful.

59. 4 She likes to walk to school by herself so she can feel more independent.

60. (28) 1 I'll exchange my Charizard card for your Pikachu card.

61. 2 Let's work together to reduce the amount of trash we create .

62. **3** Cats often **ignore** me when I try to **get their attention**.  
無視(むし)する 注意(ちゅうい)を引(ひ)く
63. **4** People used to **pickle** vegetables to **preserve** them for a long time.  
漬(つ)け汁(じゅう)につける 保存(ぼぞん)する
64. **(29)1** The **unofficial** reason the idol **retired** was to **get married**.  
非公式(ひこうしき) 理由(りゆう) アイドル 引退(いんたい)した 結婚(けっこん)するため
65. **2** After the **representative** **retired**, a **temporary** replacement **took his place** until the next **election**.  
代議士(だいぎし)・議員(ぎいん) 退職(たいしよく) 一時(いちじ)の 後継者(こうけいしゃ) 彼のかわりをした 選挙(せんきょ)
66. **3** I thought I saw a **rare** bird, but it **turned out to be** simply an **ordinary** crow.  
めずらしい ~であるとわかる ただの 普通(ふつう)の カラス
67. **4** Restaurants often give me a knife, but I **rarely** need it. It is usually **unnecessary**.  
滅多(めった)にない 不必要(ふひつよう)な

**Answers for "Vocabularies".**

- |                  |  |          |                                      |          |                                       |          |   |
|------------------|--|----------|--------------------------------------|----------|---------------------------------------|----------|---|
| 68. <b>(26)1</b> | <small>自由時間(じゆうじかん)</small><br>leisure   | <b>2</b> | <small>産業(さんぎょう)</small><br>industry | <b>3</b> | <small>自然(しぜん)</small><br>nature      | <b>4</b> | <small>文化(ぶんか)・教養(きょうよう)</small><br>culture |
| 69. <b>(27)1</b> | <small>混乱(こんらん)した</small><br>confused    | <b>2</b> | <small>孤独(こどく)な</small><br>lonely    | <b>3</b> | <small>平和(へいわ)な</small><br>peaceful   | <b>4</b> | <small>独立(どくりつ)した</small><br>independent    |
| 70. <b>(28)1</b> | <small>交換(こうかん)する</small><br>exchange    | <b>2</b> | <small>減(へ)らす</small><br>reduce      | <b>3</b> | <small>無視(むし)する</small><br>ignore     | <b>4</b> | <small>維持(いじ)する</small><br>preserve         |
| 71. <b>(29)1</b> | <small>非公式(ひこうしき)な</small><br>unofficial | <b>2</b> | <small>一時(いちじ)の</small><br>temporary | <b>3</b> | <small>通常(つうじょう)の</small><br>ordinary | <b>4</b> | <small>不必要(ふひつよう)な</small><br>unnecessary   |

**Review Questions**  English Teachers On Call

72. **1)-26** What is pollution?  
 73. *Pollution is something made by humans that does damage to the environment.*
74. **2)-26** What is light pollution?  
マイナスの 影響(えいきょう)
75. *Any negative effect of artificial light on the environment.*
76. **3)-27** What did scientists who study the stars first notice about light pollution?  
 77. *They noticed that it was becoming more and more difficult to see stars at night (because of the light given off by cities).*
78. **4)-27** How does light pollution harm our health?  
妨(さまた)げる
79. *By interrupting sleep.*
80. *Sometimes even interfering with the body's ability to produce the chemicals needed to stay healthy.*  
~でさえ 邪魔(じゃま)をすること 能力(のうりょく) 作(つく)り出(だ)す 化学作用(かがくさよう)の 必要(ひつよう)なもの
81. **5)-28** Who is encouraging the protection of areas of the sky from light pollution?  
 82. *An organization called International Dark-Sky Association.*
83. **6)-28** How does International Dark-Sky try to protect areas of the sky?  
説得(せつとく)する 効果的(こうかてき)に
84. *By trying to persuade governments to use public lighting more efficiently.*
85. **7)-29** How would creating less light help?  
 86. *We would create less light pollution.*
87. *Countries would save oil used for the production of light.*  
節約(せつやく)する 製品(せいひん)
88. **8)-29** What are some examples of unneeded light?  
 89. *Store signs that are on when the store isn't open.*  
 90. *Street lights on rarely used streets.*
91. *Traffic lights late at night when there is little traffic.*  
交通信号灯(こうつうしんごうとう) 少(すく)くない 通行量(つうこうりょう)

92. Apartment or house 玄関(げんかん)の灯(あか)り entry lights that are on all night long.

解答: (26) 3 (27) 1 (28) 2 (29) 4

e T O C 生徒様以外使用禁止

1	(動) ~を <sup>ゆうきづける</sup> 勇気づける、 <sup>そくしん</sup> 促進する	encourage	_____	_____	_____	_____	_____	_____	インカーリ ッジ
2	(副) 実 <sup>じつは</sup> は、実 <sup>じっさい</sup> 際に	actually	_____	_____	_____	_____	_____	_____	アクチュア リ
3	(動) ~を開 <sup>ひら</sup> 発する、発 <sup>はつ</sup> 達する	develop	_____	_____	_____	_____	_____	_____	ディベロッ プ
4	(動) ~を <sup>ひきおこす</sup> 引き起こす (名) <sup>げんいん</sup> 原因	cause	_____	_____	_____	_____	_____	_____	コース
5	(動) ~を <sup>ていあん</sup> 提案する、 <sup>あんじ</sup> 暗示する	suggest	_____	_____	_____	_____	_____	_____	サジェスト
6	(名) <sup>りゆう</sup> 理由	reason	_____	_____	_____	_____	_____	_____	リーズン
7	(動) ~に <sup>がい</sup> 害を <sup>あたえる</sup> 与える (名) <sup>がい</sup> 害	damage	_____	_____	_____	_____	_____	_____	デミッジ
8	(名) <sup>かんきょう</sup> 環境	environment	_____	_____	_____	_____	_____	_____	インヴァイ ロンメン
9	(形) <sup>こうか</sup> 高価な	expensive	_____	_____	_____	_____	_____	_____	イクスペン シブ
10	(動) ~を <sup>せいさん</sup> 生産する	produce	_____	_____	_____	_____	_____	_____	プロデュ ース
11	(動) ~を <sup>つくりだ</sup> 作り出す	create	_____	_____	_____	_____	_____	_____	クリエイ
12	(動) <sup>ふえる</sup> 増える、~を <sup>ふ</sup> 増やす	increase	_____	_____	_____	_____	_____	_____	インクリ ーズ
13	(名) <sup>りえき</sup> 利益、 <sup>りてん</sup> 利点(動) ~の ためになる	benefit	_____	_____	_____	_____	_____	_____	ベネフィ
14	(動) ~を <sup>ほご</sup> 保護する、 <sup>まも</sup> 守 る	protect	_____	_____	_____	_____	_____	_____	プロテク
15	(動) ~を <sup>こうじょう</sup> 向上させ る、よくなる	improve	_____	_____	_____	_____	_____	_____	インプルー プ