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3[A] – <u>Lights Out</u> Lesson1 G2 Chobun TypeB

10.2(3A)A2E

- 1. When we hear the word "pollution," we generally think of the damage to the
- 2. environment caused by chemicals and other substances.
- 3. Recently, however, another type of pollution has begun to attract
- 4. attention—light pollution. This refers to any negative effect of artificial light
- 5. on the environment. According to experts, artificial light is doing damage both to ( *26* ) and to human beings.
- 6. \*Choose the correct answer to fill in the blank from these choices.
- 7. (26) 1 leisure 2 industry3 nature 4 culture

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## Further Questions&sample answers

- 8. 1)-26 What is pollution?
- 9. Pollution is something made by humans that does damage to the environment.
- 10.2)-26 What is light pollution?
- 11. Any negative effect of artificial light on the environment.
- 12. The first people to become aware of light pollution were scientists who study 13. the stars. They noticed that it was becoming more and more difficult to see 14. stars at night because of all the light given off by cities. Light pollution, 15. though, does not only make it harder for us to see the stars. It also harms our 16 hoalth by interrupting sloop and semetimes even interfering with the body's
- 16. health by interrupting sleep and sometimes even interfering with the body's
- 17. ability to produce the chemicals needed to stay healthy. It also affects wildlife,
- 18. causing animals to become ( 27 ). For example, artificial lights can
- 19. make it difficult for baby turtles to find the ocean after they are born, and
- 20. as a result, many of them die.
- 21. Choose the correct answer to fill in the blank from these choices.
- 22. **(27)** 1 confused
- 2 lonely
- 3 peaceful
- 4 independent

# Further Questions& sample answers

- 23. 3)-27 What did scientists who study the stars first notice about light pollution?
- <sup>24</sup>.\_They noticed that it was becoming more and more difficult to see stars at night \_because of the light given off by cities.
- 25. 4)-27 How does light pollution harm our health?
- 26. Dy interrupting sleep.
- 27. 2 Sometimes even interfering with the body's ability to produce the chemicals needed to stay healthy.
- 28. In response to these problems, an international movement is now trying to
- 29. ( 28 ) the effects of artificial light. An organization called International
- 30. Dark-Sky Association is leading the way by encouraging the protection of
- 31. areas of the sky from light pollution. The organization is also trying to
- 32 persuade governments to use public lighting more efficiently.
- 33. \*Choose the correct answer to fill in the blank from these choices.
- 34. **(28) 1** exchange
- 2 reduce
- 3 ignore
- 4 preserve

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#### Further Questions& sample answers

- 35. 5)-28Who's encouraging the protection of areas of the sky from light pollution?
- 36. An organization called International Dark-Sky Association.
- 37.6)-28 How does International Dark-Sky try to protect areas of the sky?
- 38. By trying to persuade governments to use public lighting more efficiently.
- 39. At the present, much of the light we produce is not actually needed. Creating less light would not only lead to less light pollution, but it would also help the environment in other ways. 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. Stopping this waste of fuel would both save money and lessen the amount of greenhouse gases being released into the air.
  - \*Choose the correct answer to fill in the blank from these choices.
- 40. (29) 1 unofficial 2 temporary 3 ordinary 4 unnecessary

#### Further Questions& sample answers

- 41. 7)-29 How would be creating less light help?
- 2 Countries would save oil used for the production of light.
- 44.8)-29 What are some examples of unneeded light?
- 45. ① Store signs that are on when the store isn't open.
- 46. 2 Street lights on rarely used streets.
- 3 Traffic lights late at night when there's little traffic.
- 48. 49 Apartment or house entry lights that are on all night long.

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

# Example sentences:



<sub>53.</sub> **(26)** 

- Your dry cleaning is ready, so please <u>drop by</u> and pick it up at your leisure.
- 55. 2 The manufacturing industry is very important to the economy.
- 56. 3 We like to go camping every now and then to be surrounded by nature.
- 57. 4 Calligraphy and tea ceremonies are part of traditional Japanese culture.

# <sub>58.</sub> **(27)**

- 59.1 I am **confused** by the new grammar.
- 60.2 I often feel lonely when I am home alone.
- 61.3 This neighborhood is not very exciting, but at least it is peaceful.
- 62.4 She likes to walk to school by herself so she can feel more **independent**.

### 63. **(28)**

- 64.1 I'll **exchange** my Charizard card for your Pikachu card.
- 65.2 Let's work together to reduce the amount of trash we create.
- 66.3 Cats often **ignore** me when I try to get their attention.
- People used to pickle vegetables to **preserve** them for a long time.

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can make it difficult for baby turtles to find the ocean after they are born,
       結果(けっか)として
97. and as a result, many of them die.
  Choose the correct answer to fill in the blank from these choices.
        混乱(こんらん)した
                          孤独(こどく)な
                                                          独立(どくりつ)した
98. (27) 1 confused
                       2
                           lonely
                                        peaceful
                                                     4
                                                         independent
  Further Questions&SampleAnswers
    3)-27 What did scientists who study the stars first notice about
    light pollution? 星を游光している人たちが最初に気が付いた光常はなんでしたか。
    They noticed that it was becoming more and more difficult to see stars at
      night
100.
      because of the light given off by cities.
101.
   4)-27 How does light pollution harm our health? どの様に光害は私たちの健康を害するのですか。
                 妨(さまた)げる
           By interrupting sleep.
102.
                        ~でさえ 邪魔(じゃま)をすること
                                                           能力 (のうりょく)
           Sometimes even interfering with the body's
                   化学作用(かがくさよう)の 必要(ひつよう)なもの
                                                to stay healthy.
                                     needed
    produce
               the
                     chemicals
         反応(はんのう)
                                                         動向 (どうこう)
      In response to these problems, an international movement is now trying to
104.
                                                         組織(そしき)
                     影響(えいきょう)
                                of artificial light. An organization called
                ) the
                       effects
105.
                                              指導 (しどう) している
                                連合(れんごう)
      International Dark-Sky Association is
                                                 leading the way
106.
      ~を奨励(しょうれい)することで 保護(ほご)するもの 範囲(はんい) by encouraging the protection of areas
                                             areas of the sky from light pollution.
107.
                                        説得(せっとく)する
                                                     政府(せいふ)
      The organization is also trying to persuade governments to use public
108.
                 効率(こうりつ)よく
       lighting more efficiently.
109.
  *Choose the correct answer to fill in the blank from these choices.
               交換 (こうかん) する
                                  減(へ)らす
                                                     無視(むし)する
                                                                       維持(いじ)する
      (28)
            1
                exchange
                                  reduce
                                                      ignore
110.
                                                                       preserve
  Further Questions& sample answers
                  励(はげ)ましている
                                   保護(ほご)する
                                                領域(りょういき)
      5)-28 Who's encouraging the protection of
                                                           of the sky from light
                                                  areas
111.
  pollution?
                  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。
        An organization called International Dark-Sky Association.
      6)-28 How does International Dark-Sky try to protect areas of the sky?
113.
            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。
114.
                  説得(せっとく)する
      By trying to persuade governments to use public
                                                            lighting more
  効果的(こうかてき)に
   efficiently .
      At the present, much of the light we produce is not actually needed.
116.
      作(つく) り上(あ) げること 一層(いっそう) 少ない
                                                         導(みちび)く
                                   light would not only
                                                           lead to less light
         Creating
                          less
117.
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pollution, but it would also help the environment
                                                             in other ways
118.
                                                 推測(すいそく)された
      In the United States, for example, it is
                                                  estimated
                                                             that 2 million barrels
119.
                                          製品(せいひん)
      of oil are used every day for the production of (
                                                                   ) light. Stopping
120.
                       燃料(ねんりょう)
                                                お金(かね)を蓄(たくわ)える
                                                                       少(すく)なくする
      this waste of
                                  would both
                                                                         lessen
                                                  save money
                                                                  and
121.
       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
                                                             into the air.
      amount of greenhouse gases being
                                                released
122.
  *Choose the correct answer to fill in the blank from these choices.
               非公式(ひこうしき)な
                                  一時 (いちじ) の
                                                 通常(つうじょう)の
                                                                  不必要(ふひつよう)な
      (29)
                 unofficial
                                 temporary
                                               3
                                                  ordinary
123.
                                                                 unnecessary
  Further Questions& sample answers
                          作(つく)り出(だ)すこと より少(すく)ない
      7)-29 How would
                                             less
                                                     light
                                                              help
                             creating
124.
              光を少なくすることでどのような手助けになりますか。
125
         (1) We would create less light pollution.
126.
                               節約(せつやく)する
                                            oil used for the production of light.
            Countries would
                                  save
127.
                                           必要(ひつよう)でない
      8)-29 What are some examples of unneeded light?
128.
             例としてあげられる不必要な光はなんですか。
129.
         (1) Store signs that are on when the store isn't open.
130.
            Street lights on rarely used streets.
131.
            交通信号灯 (こうつうしんごうとう)
                                                            少(すく)ない 通行量(つうこうりょう)
                                late at night when there's little
                traffic
132.
                                   玄関 (げんかん) の灯 (あか) り
         4 Apartment or house entry lights that are on all night long.
133.
  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.
      (26)
             1
                leisure
                                \mathbf{2}
                                    industry
                                                                       4 culture
                                                       nature
134.
                                2
      (27)
             1
                                                    3
                confused
                                    lonely
                                                                       4 independent
                                                       peaceful
135.
                                2
             1
                exchange
                                    reduce
                                                                        4 preserve
                                                        ignore
136.
      (29)
                                2
             1
                unofficial
                                                    3
                                                        ordinary
                                    temporary
                                                                        4 unnecessary
137.
  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.
      (26)
138.
                                                立(た)ちよって
          Your dry cleaning is ready, so please drop by and pick it up at your leisure.
139.
                製造業(せいぞうぎょう)の 産業(さんぎょう)
          The manufacturing industry is very important to the economy.
140.
                                        しばしば
                                                           取(と)り囲(かこ)まれている 自然(しぜん)に
          We like to go camping every now and then to be
                                                              surrounded
141.
                                              ~の一部(いちぶ) 伝統(でんとう)の
          Calligraphy and tea ceremonies are part of traditional Japanese
142.
  文化・教養 (きょうよう)
     culture
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143.

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144.
                混乱(こんらん)した
                                         文法学(ぶんぽうがく)
          Lam
                 confused by the new
                                          grammar
145.
          I often feel lonely when I am home
                                                alone.
146.
                                                          少(すく)なくとも
          This neighborhood is not very exciting, but at least it is peaceful.
147.
          She likes to walk to school by herself so she can feel more independent.
148.
      (28)
149.
              交換(こうかん)する
          I'll exchange my Charizard card for your Pikachu card.
150.
                                             ~の量(りょう)
                                  減(へ)らす
          Let's work together to reduce the amount of trash we
151.
                      無視(むし)する
                                me when I try to get their attention.
          Cats often
                       ignore
152.
                                                          保存(ほぞん)する
                          漬(つ)け汁(しる)につける
                                           vegetables to preserve them for a long
          People used to
                               pickle
153.
  time.
      (29)
154.
                                         アイドル 引退(いんたい)した
               非公式(ひこうしき)
                           理由(りゆう)
                                                 retired was to get married.
              unofficial
                            reason the idol
155.
                    代議士(だいぎし)・議員(ぎいん) 退職(たいしょく)
                                                        一時(いちじ)の 後継者(こうけいしゃ)
          After the
                                          retired, a temporary replacement
156.
                      representative
                彼のかわりをした
             took his place until the next election.
                                                  ~であるとわかる
          I thought I saw a rare bird, but it turned out to be simply an ordinary
157.
  カラス
  crow.
                                              滅多 (めった) にない
      4 Restaurants often give me a knife, but I
                                                rarely
                                                        need it. It is usually unnecessary.
158.
  Answers for "Vocabularies".
                自由時間(じゆうじかん)
                                 産業 (さんぎょう)
                                                自然(しぜん)
                                                                   文化(ぶんか)・教養(きょうよう)
      (26)
             1
                   leisure
                                  industry
                                            3
                                                                         culture
                                                nature
159.
                混乱(こんらん)した
                                                平和 (へいわ) な
                                                                    独立 (どくりつ) した
      (27)
                                 lonely
             1
                 confused
                                                peaceful
                                                                   independent
160.
                交換(こうかん)する
                                                                   維持(いじ)する
      (28)
             1
                                 reduce
                 exchange
                                                 ignore
161.
                                                                   preserve
                非公式(ひこうしき)な
                                  一時 (いちじ) の
                                                通常 (つうじょう) の
                                                                   不必要(ふひつよう)な
      (29)
             1
                 unofficial
                                 temporary3
                                                 ordinary
162.
                                                                   unnecessary
  Review Questions
      1)-26 What's pollution?
163.
       Pollution is something made by humans that does damage to the environment.
164.
      2)-26 What's light pollution?
165.
                                  of artificial light on the environment.
       Any negative
                         effect
166.
      3)-27 What did scientists who study the stars first notice about light
167.
  pollution?
        They noticed that it was becoming more and more difficult to see stars at
168.
  night
      _because of the light given off by cities).
169.
      4)-27 How does light pollution harm our health?
170.
                 妨(さまた)げる
          By interrupting sleep.
171.
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解答: (26) 3 (27) 1 (28) 2 (29) 4



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