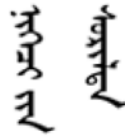


Unit 1 Science and Scientists



I
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1. What impressed Lucy the most in the Science and Technology Museum?

- ☐ A.The telephone models.
- ☐ B.The dancing robots.
- ☐ C.The spacecraft model.

2. Why did the man pay an extra 15%?

- ☐ A.For the service.
- ☐ B.For the food.
- ☐ C.For the tea and coffee.

3. When will the prize-giving ceremony be held?

- ☐ A.On 10 February.
- ☐ B.On 12 February.
- ☐ C.On 14 February.

4. What does Daniel want to be in the future?

5. How does Herman feel about his old biology teacher?

- ☐ A.Fearful.
- ☐ B.Grateful.
- ☐ C.Cold.

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6. Why is Richard Avis looking for his time twins?

- ☐ A.To write a book when he is forty years old.
- ☐ B.To satisfy his curiosity about the concept of a meaningful life.
- ☐ C.To learn how different cultures view the meaning of success and happiness.

7. How many time twins has Richard found so far?

- ☐ A.15.
☐ B.17.
☐ C. 32.

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8. When was Wang Xuan born?

- ☐ A.5 February 1937.
- ☐ B.15 November 1936.
- ☐ C.25 April 1937.

9. Which statement describes Wang Xuan?

- ☐ A. He graduated from one of the best-known universities in China.
- ☐ B. He majored in art design.
- ☐ C. It took him more than twenty years to invent the typesetting system.

10. What can we infer from the monologue?

- ☐ A. Wang Xuan invented the typesetting system by accident.
- ☐ B. Before Wang Xuan's invention, there were already laser typesetting systems.
- ☐ C. Wang Xuan invented lots of new Chinese characters.

II

1. In the most s() cases, the disease can lead to blindness.
2. Japan will see a d() in births as more and more young couples choose not to have babies.
3. He was getting angry, thinking that I couldn't b() him for breaking the vase.
4. As a sales a() in a department store, he worked hard to serve every customer.
5. Jenny came up with a b() way to get a ticket for the sold-out concert, which most people would never have thought of.
6. Whenever meeting new mechanics, the quiet Daniel would instantly() () himself into a smooth talker.
7. Soldiers swear to () () their country, even though they may have to sacrifice their lives.
8. In fact, he has realised that his worst () () is his impatience.
9. He wanted to be () () the project to prove he was able to face the challenge.

- ☐ C.who
- ☐ D.where

6. Wuthering Heights, written by Emily Bronte, is _____ many believe to be the peak (顶峰) of Gothic novels.

- ☐ A.which
- ☐ B.that
- ☐ C.what
- ☐ D.who

7. The reason _____ this app is very popular is _____ it can generate “future pictures” to show what you will look like when you are older.

- ☐ A.why; that
- ☐ B.that; why
- ☐ C.why; which
- ☐ D.which; that

8. The combination of kung fu and beauty is _____ makes the film so appealing and successful.

- ☐ A.who
- ☐ B.which
- ☐ C.that
- ☐ D.what

9. Now that e-cigarettes have been found to be harmful to people’s health, the next question is _____ they will be banned in our country.

- ☐ A.why
- ☐ B.when
- ☐ C.where
- ☐ D.whom

10. It seems _____ a lack of common sense is _____ is challenging AI and preventing it from surpassing human beings.

- ☐ A.that; what
- ☐ B.what; that
- ☐ C.that; who
- ☐ D.what; which

_____ tend to be happier than those who do not.

There's also the air above the sea. After spending time near the (10)_____, you might find that you feel more (11)_____ than usual. This is because sea air is filled with negative ions (ፍላጎት ጥንቃቄ). These ions (12)_____ our levels of serotonin (ጥንቃቄ ምርት ምርት), a chemical that affects our (13)_____. With balanced serotonin levels, we feel calm and relaxed.

(14)_____, people who live near water tend to be more (15)_____ active. Water sports like swimming and rowing can help us stay in shape, which in turn keeps us healthy.

1. _____

- ☐ A.boring
- ☐ B.rich
- ☐ C.noisy
- ☐ D.initial

2. _____

- ☐ A.quiet
- ☐ B.pure
- ☐ C.large
- ☐ D.deep

3. _____

- ☐ A.space
- ☐ B.universe
- ☐ C.rainbow
- ☐ D.water

4. _____

- ☐ A.general
- ☐ B.mental
- ☐ C.severe
- ☐ D.multiple

5. _____

- ☐ A.coast
- ☐ B.lake
- ☐ C.park

☐ D.city

6. _____

☐ A.have

☐ B.provide

☐ C.hold

☐ D.trace

7. _____

☐ A.luckier

☐ B.safer

☐ C.steadier

☐ D.better

8. _____

☐ A.applied

☐ B.compared

☐ C.linked

☐ D.added

9. _____

☐ A.sun

☐ B.rest

☐ C.wealth

☐ D.shadow

10. _____

☐ A.river

☐ B.ocean

☐ C.pond

☐ D.concrete

11. _____

☐ A.outstanding

☐ B.brilliant

☐ C.frustrated

☐ D.relaxed

12. _____

- ☐ A.shift
- ☐ B.balance
- ☐ C.decrease
- ☐ D.defend

13. _____

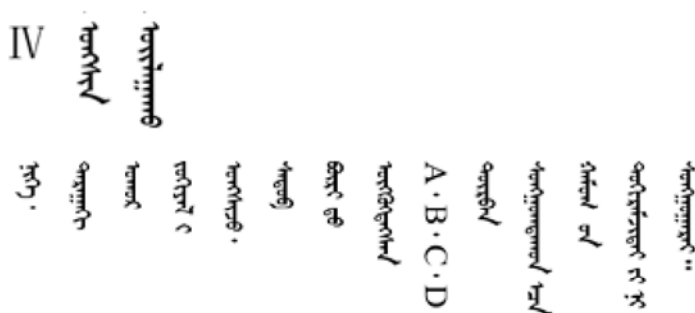
- ☐ A.mood
- ☐ B.cells
- ☐ C.behaviour
- ☐ D.decisions

14. _____

- ☐ A.After all
- ☐ B.Unfortunately
- ☐ C.Above all
- ☐ D.Finally

15. _____

- ☐ A.morally
- ☐ B.potentially
- ☐ C.physically
- ☐ D.obviously



When you think of the Arctic, you probably imagine an icy land of pure white snow. Many also imagine it as the last really clean place left on Earth. We have polluted the deepest oceans with plastic rubbish, and now, it's the Arctic's turn.

German scientists have recently found microplastics(微小塑料) in the Arctic's snow. Microplastics are pieces of plastic that are smaller than 5 millimetres in diameter. Remarkably, the scientists found 1,800 pieces of microplastic per litre of snow.

So how is plastic pollution reaching the Arctic? According to one scientist, "It's readily

apparent that the majority of the microplastic in the snow comes from the air.” They fall off of plastic objects and are moved by the wind, just like dust. They mix with ice in the air and fall to the ground as snow. Finding these plastics in the remote Arctic snow means that they are sure to be found all over the world. In fact, an even higher amount of microplastic was found in the snow around the cities that were studied. Due to the small size of microplastics and their ability to travel through the air, researchers now believe that they may cause significant air pollution. If the microplastics are small enough, they can be inhaled(吸入) and stay in our bodies for a long time, which could have harmful effects in the long term. In fact, some studies have already shown that microplastics may increase the risk of lung cancer, heightening the need for further investigation.

Microplastics have also been found in rivers and oceans around the world. Research has shown that they flow over very long distances, damaging ecosystems along the way. Many people are unaware that microplastics are also released when we wash our clothes. Tiny plastic fibres are released from our clothes into the waste water and then flow into rivers and out to the sea. These fibres are then eaten by sea animals, meaning that when people eat seafood, they could also be eating plastic.

So how bad is microplastic for us? Scientists are unwilling to answer this question for now. We do know that our bodies are safe from taking in large pieces of microplastic, but the microplastic in the air and water is becoming harder and harder to avoid. Fortunately, governments around the world are now realising the importance of reducing plastic pollution, and scientists are working together to find a global solution.

1. Where do the microplastics in the Arctic’s snow come from?

- ☐ A.From the sky.
- ☐ B.From the ocean.
- ☐ C.From waste water.
- ☐ D.From sea animals.

2. Why do scientists need to study more about the microplastic in our bodies?

- ☐ A.Our bodies can take in small microplastics.
- ☐ B.Microplastic may harm our eyesight.
- ☐ C.Microplastic may lead to lung cancer.
- ☐ D.Earlier studies didn’t succeed.

3. What is to blame for plastic pollution?

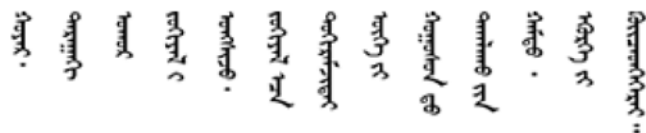
- ☐ A.The weather.
- ☐ B.Microplastics.
- ☐ C.Air pollution.
- ☐ D.Human activities.

4. How can microplastic enter our bodies?

- ☐ A.By playing with snow.
- ☐ B.By breathing in small microplastics.
- ☐ C.By washing clothes.
- ☐ D.By swimming with sea animals.

5. What might be the best title for this passage?

- ☐ A. Plastic Pollution Does Harm to Our Health
- ☐ B. Air Pollution Is Becoming Serious
- ☐ C. Plastic Snow Falls from the Sky
- ☐ D. The Arctic Is No Longer Clean



When your alarm clock rings and you tell yourself to get out of bed, you probably wonder “Why on earth does school have to start so early?”

Luckily, there is a new law to back you up, and it's based on science.

A law in California, passed on 13 October 2019, requires that public middle schools begin classes no earlier than 8:00 a.m. and that high schools start no earlier than 8:30 a.m. The law will go into effect by 1 July 2022.

Starting school at 8:00 or 8:30 in the morning may not sound like too big of a change, but it could mean one more hour of sleep for students who normally start school at 7:30 or even earlier.

“The effect of that one hour is something they will be feeling as 40-year-old adults,” Sumit Bhargava, a sleep expert at Stanford University said. He said that not having enough sleep can affect students’ mental health and increase the risk of obesity (肥胖) and diabetes (糖尿病) .

In the short run, students' academic performance should improve almost immediately. Kyla Wahlstrom, a researcher at the University of Minnesota's College of Education, found that students who have enough sleep are better in class and get better grades.

Some might say that asking students to go to bed earlier could have been a much easier solution than changing the school timetable across an entire state. But according to the American Academy of Sleep Medicine, teenagers go through many changes as they grow up, which makes it difficult for them to fall asleep before 11:00 p.m. So when school starts at 8:00 or earlier, it's hard for them to get the ideal 8.5—9.5 hours of sleep that experts suggest they need to do their best in the daytime.

When the new law was approved, its author, Senator Anthony Portantino, said,

“Generations of children will come to appreciate this historic day and our governor for taking brave action.”

1. The new law passed in California on 13 October is based on(_____).
2. The new law in California is aimed at ensuring students’(_____) time.
3. According to the American Academy of Sleep Medicine, asking students to go to bed earlier is not a good (_____) to the problem of students’ lack of sleep.
4. Anthony Portantino thinks that children will be grateful to the governor for taking such (_____) action.
5. Use your own words to give a brief introduction of the impact of sleep on students. You may use the passage for guidance.

study trip
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

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