Science and Technology – Worksheet 1

Name: Class: Date: Score: / 37

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Exercise 1: Match the words with their meanings

Match each word with the correct definition from the box. There is one extra definition you do not need.

WORD BOX

an important discovery or development that helps solve a problem

no longer used because something newer has been invented

the first model of a new product, used for testing

an idea suggested as a possible explanation, which is then tested

an official right to be the only one who makes or sells an invention

the most modern and advanced **easy for people to use** **working without cables**

a set of instructions that tells a computer what to do

1. breakthrough → _____
2. obsolete → _____
3. prototype → _____
4. hypothesis → _____
5. patent → _____
6. cutting-edge → _____
7. user-friendly → _____
8. wireless → _____

Exercise 2: Complete the sentences

Complete each sentence with a word from the box. There are two extra words you do not need.

Example: The company has applied for a ___ to protect its invention. → patent

WORD BOX

launch **upgrade** **data** **renewable** **Artificial** **device** **research** **download** **hardware** **hypothesis**

9. The company plans to _____ its new smartphone next spring.
10. My computer keeps crashing, so it might be time to _____ the operating system.

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11. Scientists collected _____ from over 2,000 volunteers.
12. Solar and wind power are examples of _____ energy.
13. _____ intelligence is now used to translate texts instantly.
14. This small _____ can measure your heart rate while you sleep.
15. The university has received money to carry out _____ into new cancer treatments.
16. The app lets you _____ films so you can watch them offline.

Exercise 3: Correct the collocation mistakes

Each sentence has one mistake. Rewrite the sentence correctly.

Example: She did an important discovery. → She made an important discovery.

17. The researchers made an experiment to test the new vaccine.

_____

18. Scientists have done a major breakthrough in battery technology.

_____

19. Marie did an important discovery about the human brain.

_____

20. The team is developing a new software for hospitals.

_____

21. Technology has a big effect to how we communicate.

_____

22. Don't forget to load your phone before the trip.

_____

23. The company spent millions on research and evolution.

_____

Exercise 4: Word formation

Use the word in capitals to form a word that fits the gap.

Example: The new system is far more ___ than the old one. (EFFICIENCY) → efficient

24. The internet was one of the most important _____ of the 20th century. (DEVELOP)
25. Thomas Edison was a famous American _____. (INVENT)
26. The results of the experiment were _____, so the scientists repeated it. (CONCLUDE)
27. Electric cars are becoming more _____ every year, so more people can buy them. (AFFORD)
28. The _____ of penicillin saved millions of lives. (DISCOVER)
29. Researchers _____ the samples carefully in the laboratory last week. (ANALYSIS)
30. Many people worry that robots will make their jobs _____. (NECESSARY)

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31. This phone is _____ with most wireless headphones. (COMPATIBILITY)

Exercise 5: Put the words in order

Put the words in the correct order to make sentences.

Example: made / she / a / discovery / has / surprising → She has made a surprising discovery.

32. scientists / carried out / a series of / experiments / have

33. you / should / update / your / software / regularly

34. technology / changed / the / way / has / we / work

35. breakthrough / could / this / lead / to / cheaper / energy

36. is / the / app / to / easy / extremely / use

37. users / should / be / aware / of / the / risks / of / sharing / data

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Answer key – Science and Technology – Worksheet 1

Exercise 1: Match the words with their meanings

1. **an important discovery or development that helps solve a problem**
   A breakthrough is a sudden, important step forward.
2. **no longer used because something newer has been invented**
   Obsolete things are out of date and have been replaced.
3. **the first model of a new product, used for testing**
   Companies build a prototype before mass production.
4. **an idea suggested as a possible explanation, which is then tested**
   Scientists test a hypothesis through experiments.
5. **an official right to be the only one who makes or sells an invention**
   A patent protects an inventor's idea.
6. **the most modern and advanced**
   Cutting-edge technology is at the newest stage of development.
7. **easy for people to use**
   User-friendly describes products that are simple to operate.
8. **working without cables**
   Wireless devices connect without wires or cables.

Exercise 2: Complete the sentences

9. **launch**
   To launch a product means to make it available to the public.
10. **upgrade**
    To upgrade means to replace something with a newer, better version.
11. **data**
    Data is information that is collected and studied.
12. **renewable**
    Renewable energy comes from sources that do not run out.
13. **Artificial**
    Artificial intelligence (AI) is a fixed expression.
14. **device**
    A device is a piece of equipment made for a particular purpose.
15. **research**
    We say 'carry out research into' something.
16. **download**
    To download means to copy files from the internet onto your device.

Exercise 3: Correct the collocation mistakes

17. **The researchers carried out an experiment to test the new vaccine.**
    In English we carry out, conduct, perform, run or do an experiment, not 'make' one, so 'carried out', 'conducted', 'performed', 'ran' and 'did' are all correct collocations here.
18. **Scientists have made a major breakthrough in battery technology.**
    We make or achieve a breakthrough.
19. **Marie made an important discovery about the human brain.**
    The correct collocation is 'make a discovery'.
20. **The team is developing new software for hospitals.**
    Software is uncountable, so we cannot use 'a' directly before it.
21. **Technology has a big effect on how we communicate.**
    We say 'have an effect on' something.
22. **Don't forget to charge your phone before the trip.**
    We charge a phone or battery.
23. **The company spent millions on research and development.**
    The fixed expression is 'research and development' (R&D).

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Exercise 4: Word formation

24. **developments**
    A plural noun is needed after 'one of the most important'.
25. **inventor**
    An inventor is a person who invents things.
26. **inconclusive**
    Inconclusive means not giving a clear result, so it was repeated.
27. **affordable**
    Affordable means cheap enough for people to buy.
28. **discovery**
    A noun is needed after 'the'.
29. **analysed**
    A past simple verb is needed; both British and American spellings are accepted.
30. **unnecessary**
    The negative prefix un- shows the jobs will no longer be needed.
31. **compatible**
    The adjective 'compatible with' means able to work together.

Exercise 5: Put the words in order

32. **Scientists have carried out a series of experiments.**
    Present perfect: subject + have + past participle + object.
33. **You should update your software regularly.**
    The adverb 'regularly' can go at the end or before the main verb.
34. **Technology has changed the way we work.**
    'The way we work' is a common noun phrase after the verb.
35. **This breakthrough could lead to cheaper energy.**
    'Lead to' means cause or result in.
36. **The app is extremely easy to use.**
    Pattern: be + adverb + adjective + to-infinitive.
37. **Users should be aware of the risks of sharing data.**
    'Be aware of' is followed by a noun; 'the risks of' is followed by an -ing form.

Notes for teachers: Start with the matching exercise to check that learners know the meanings, then move on to collocations and word forms. Learners often say 'do an experiment/discovery' instead of 'carry out an experiment' and 'make a discovery', and they often treat software and data as countable nouns. Watch for missing negative prefixes in the word formation task, as in inconclusive and unnecessary. As a follow-up, ask learners to write a short paragraph about a recent invention using at least six target words.

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