

Answer all the questions below:



1) Unscramble the following words:

sometashois

rexefl

tehorclesol

dggru

2) Make three sentences using the following nine words or phrases:

reflex arc

obesity

tobacco smoke

stimuli

cholesterol

tar and nicotine

effector and response

heart disease

lung cancer

3) Match the word or phrase with the right meaning:

Hormone



A rapid response by a muscle or gland, to a stimulus like heat

Reflex arc



A chemical that alters the way the body performs

Drug



A chemical that triggers a response in a target tissue

### Answers:

1) Unscramble the following words:

homeostasis

reflex

cholesterol

drugs

2) Make three sentences using the following nine words or phrases:

reflex arc

obesity

tobacco smoke

stimuli

cholesterol

tar and nicotine

effector and response

heart disease

lung cancer

3) Match the word or phrase with the right meaning:

Hormone

A chemical that triggers a response in a target tissue

Reflex arc

A rapid response by a muscle or gland, to a stimulus like heat

Drug

A chemical that alters the way the body performs

## complete the sentence

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Place the right word or words to complete the sentence:

 [Click mouse to reveal answer](#)

smoking

response

fatty

urine

maintain

minerals

stimulates

microbes

safety

- a) An effector causes a \_\_\_\_\_ by moving part of your body or by secreting a hormone.
- b) On a hot summers day, your \_\_\_\_\_ becomes less voluminous and very concentrated.
- c) Luteinising hormone \_\_\_\_\_ the release of an egg from the ovary during a period.
- d) All drugs that are prescribed by doctors, have to go through rigorous \_\_\_\_\_ clinical trials.
- e) The skin plays a key role in helping our bodies to \_\_\_\_\_ our core body temperature.
- f) High blood cholesterol levels can lead to \_\_\_\_\_ deposits on the lining of the blood vessels.
- g) A diet lacking in just one or two key \_\_\_\_\_ or vitamins can cause deficiency diseases like scurvy.
- h) Diseases in humans are caused by \_\_\_\_\_, which include bacteria fungi and viruses.
- i) There is a proven link between \_\_\_\_\_ cigarettes and contracting lung cancer.

## complete the sentence

Place the right word or words to complete the sentence:

**smoking**

**response**

**fatty**

**urine**

**maintain**

**minerals**

**stimulates**

**microbes**

**safety**

- a) An effector causes a response by moving part of your body or by secreting a hormone.
- b) On a hot summers day, your urine becomes less voluminous and very concentrated.
- c) Luteinising hormone stimulates the release of an egg from the ovary during a period.
- d) All drugs that are prescribed by doctors, have to go through rigorous safety clinical trials.
- e) The skin plays a key role in helping our bodies to maintain our core body temperature.
- f) High blood cholesterol levels can lead to fatty deposits on the lining of the blood vessels.
- g) A diet lacking in just one or two key minerals or vitamins can cause deficiency diseases like scurvy.
- h) Diseases in humans are caused by microbes, which include bacteria fungi and viruses.
- i) There is a proven link between smoking cigarettes and contracting lung cancer.

## multiple choice

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: [sales@science-interactive.co.uk](mailto:sales@science-interactive.co.uk)

web: [www.science-interactive.co.uk](http://www.science-interactive.co.uk)



Click mouse to reveal answer

---

1: Which of the following is not an example of a stimulus ?

---

- A Temperature
  - B Sound
  - C Light
  - D Nervousness
- 

---

2: IVF in IVF fertility treatment for infertile couples stands for ?

---

- A In viva fertilisation
  - B In vitro fertilisation
  - C In vaginal fertilisation
  - D In uteri fertilisation
- 

---

3: Clinical trials, where new drugs are tested on humans are carried out by ?

---

- A Volunteers
  - B Students
  - C Research scientists
  - D The government
- 

---

4: Which part of the pathway in a reflex arc activates the effector ?

---

- A Relay neuron
  - B Motor neuron
  - C Sensory neurone
  - D Brain
-

---

1: Which of the following is not an example of a stimulus ?

---

A

---

B

---

C

---

D Nervousness

---

---

2: IVF in IVF fertility treatment for infertile couples stands for ?

---

A

---

B In vitro fertilisation

---

C

---

D

---

---

3: Clinical trials, where new drugs are tested on humans are carried out by ?

---

A

---

B

---

C Research scientists

---

D

---

---

4: Which part of the pathway in a reflex arc activates the effector ?

---

A

---

B Motor neuron

---

C

---

D

---



Click mouse to reveal answer

---

5: A drug taken to reduce bacterial infection in the body is called a ?

---

- A Anti-clotting drug
  - B Paracetamol
  - C Antibiotic
  - D Aspirin
- 

---

6: A scientist who proposes a solution or an answer to a scientific question has a ?

---

- A Investigation
  - B Opinion
  - C Hypothesis
  - D Theory
- 

---

7: High salt in the diet of humans causes which condition ?

---

- A High cholesterol
  - B Obesity
  - C Diabetes
  - D High blood pressure
- 

---

8: The addictive substance found in tobacco smoke is called ?

---

- A Tar
  - B Carbon monoxide
  - C Nicotine
  - D Solvent
-

## multiple choice

---

5: A drug taken to reduce bacterial infection in the body is called a ?

---

A

---

B

---

C Antibiotic

---

D

---

---

6: A scientist who proposes a solution or an answer to a scientific question has a ?

---

A

---

B

---

C Hypothesis

---

D

---

---

7: High salt in the diet of humans causes which condition ?

---

A

---

B

---

C

---

D High blood pressure

---

---

8: The addictive substance found in tobacco smoke is called ?

---

A

---

B

---

C Nicotine

---

D

---



Click mouse to reveal answer

9: Smoking cigarettes over long period of time is linked to which lung disease ?

- A Cystic fibrosis
- B Coughing
- C Cancer
- D Wheezing

10: How long does it take a new drug to reach final approval for use by doctors ?

- A One year
- B Five years
- C Seven years
- D Fifteen years

11: What is the best description of a clinical trial for a new drug ?

- A Testing on animals
- B Testing to see if it is effective
- C Its discovery by research scientists
- D Testing on human volunteers

12: Which of the following statements about cholesterol is not true ?

- A LDL cholesterol is good cholesterol
- B Cholesterol is used to make hormones
- C Cholesterol is a protein
- D Animal fats are rich in cholesterol

---

9: Smoking cigarettes over long period of time is linked to which lung disease ?

---

A

---

B

---

C Cancer

---

D

---

---

10: How long does it take a new drug to reach final approval for use by doctors ?

---

A

---

B

---

C

---

D Fifteen years

---

---

11: What is the best description of a clinical trial for a new drug ?

---

A

---

B

---

C

---

D Testing on human volunteers

---

---

12: Which of the following statements about cholesterol is not true ?

---

A

---

B

---

C Cholesterol is a protein

---

D

---

# Biology 1A (BLY 1A)

## true or false

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Decide whether the following statements are true or false:



Click mouse to reveal answer

| Statements:  | True | False |
|--|------|-------|
| 1: An effector causes a response by moving part of your body or by secreting a hormone ?         | True | False |
| 2: A sensory neuron carries electrical impulses to effectors like muscles and glands ?           | True | False |
| 3: Glands are organs in the body that release hormones like adrenalin into the blood ?           | True | False |
| 4: The target organ of adrenalin is the kidneys ?  | True | False |
| 5: On a hot summers day, your urine becomes less voluminous and very concentrated ?              | True | False |
| 6: Luteinising hormone (LH) stimulates the release of an egg from the ovary during a period ?    | True | False |
| 7: Hyperthermia is when the core body temperature starts to fall below 35°C                      | True | False |
| 8: All drugs that are prescribed by doctors have to go through rigorous safety clinical trials ? | True | False |
| 9: There is no real link between smoking cigarettes and contracting lung cancer ?                | True | False |
| 10: The skin plays a key role in helping our bodies to maintain a core body temperature ?        | True | False |

# Biology 1A (BLY 1A)

## true or false

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: [sales@science-interactive.co.uk](mailto:sales@science-interactive.co.uk)

web: [www.science-interactive.co.uk](http://www.science-interactive.co.uk)

## Answers:

| Statements:  | True | False |
|--|------|-------|
| 1: An effector causes a response by moving part of your body or by secreting a hormone ?         | True |       |
| 2: A sensory neuron carries electrical impulses to effectors like muscles and glands ?           |      | False |
| 3: Glands are organs in the body that release hormones like adrenalin into the blood ?           | True |       |
| 4: The target organ of adrenalin is the kidneys ?  |      | False |
| 5: On a hot summers day, your urine becomes less voluminous and very concentrated ?              | True |       |
| 6: Luteinising hormone (LH) stimulates the release of an egg from the ovary during a period ?    | True |       |
| 7: Hyperthermia is when the core body temperature starts to fall below 35°C                      |      | False |
| 8: All drugs that are prescribed by doctors have to go through rigorous safety clinical trials ? | True |       |
| 9: There is no real link between smoking cigarettes and contracting lung cancer ?                |      | False |
| 10: The skin plays a key role in helping our bodies to maintain a core body temperature ?        | True |       |

# Biology 1A (BLY 1A)

## true or false

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: [sales@science-interactive.co.uk](mailto:sales@science-interactive.co.uk)

web: [www.science-interactive.co.uk](http://www.science-interactive.co.uk)

Decide whether the following statements are true or false:



[Click mouse to reveal answer](#)

| Statements:   | True | False |
|---|------|-------|
| 1: Amino acids are used by the body to build proteins and enzymes ?                               | True | False |
| 2: Fatty acids / glycerols are used by the body for insulation and as a long term energy source ? | True | False |
| 3: High levels of salt in our diet can lead to obesity ?  | True | False |
| 4: High blood cholesterol levels can lead to fatty deposits on the lining of the blood vessels ?  | True | False |
| 5: The total amount of daily energy requirement depends on your sex, lifestyle and age ?          | True | False |
| 6: The body mass index tell us how intelligent a person is ?                                      | True | False |
| 7: A diet lacking in just one key mineral or vitamin can cause deficiency diseases like scurvy ?  | True | False |
| 8: Diseases in humans are caused by microbes, which include bacteria, fungi and viruses ?         | True | False |
| 9: Viruses are not whole cells. They need a host cell in order to replicate themselves ?          | True | False |
| 10: Vaccination reduces the spread of diseases like Polio, Measles and Mumps ?                    | True | False |

# Biology 1A (BLY 1A)

## true or false

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: [sales@science-interactive.co.uk](mailto:sales@science-interactive.co.uk)

web: [www.science-interactive.co.uk](http://www.science-interactive.co.uk)

## Answers:

| Statements:   | True | False |
|---|------|-------|
| 1: Amino acids are used by the body to build proteins and enzymes ?                               | True |       |
| 2: Fatty acids / glycerols are used by the body for insulation and as a long term energy source ? | True |       |
| 3: High levels of salt in our diet can lead to obesity ?  |      | False |
| 4: High blood cholesterol levels can lead to fatty deposits on the lining of the blood vessels ?  | True |       |
| 5: The total amount of daily energy requirement depends on your sex, lifestyle and age ?          | True |       |
| 6: The body mass index tell us how intelligent a person is ?                                      |      | False |
| 7: A diet lacking in just one key mineral or vitamin can cause deficiency diseases like scurvy ?  | True |       |
| 8: Diseases in humans are caused by microbes, which include bacteria, fungi and viruses ?         | True |       |
| 9: Viruses are not whole cells. They need a host cell in order to replicate themselves ?          | True |       |
| 10: Vaccination reduces the spread of diseases like Polio, Measles and Mumps ?                    | True |       |