Grade 6 Computing

Unit 8 · The Internet and Staying Safe

ANSWER KEY · FOR TEACHERS

Full marks 30

Give the marks for the points in the marking scheme; an answer in other words that says the same is right.

1 Key words

1. network
2. internet
3. router
4. internet service provider
5. server
6. browser
7. domain
8. phishing

Each carries 0.5 mark. **K · 4**

2 Label the diagram

1. Wi-Fi router or mobile tower
2. your internet service provider
3. the internet networks joined to networks
4. a server keeps websites

Each carries 0.5 mark. **K · 2**

3 Multiple choice

i. **b.** a company that joins your home or phone to the internet, for a fee **K · 1**

An ISP sells you the connection: the data pack or the monthly Wi-Fi. A search engine finds pages, a browser opens them, and a server stores them.

ii. **d.** lizard umbrella kettle river **U · 1**

Four random words are long and follow no pattern a guesser can predict. The others are a place with a year on the end, a common password with symbols swapped in, and a run of keys along the keyboard: all patterns that guessing programs try first.

iii. **c.** If one website's passwords are stolen, the thief can't use yours to get into your other accounts. **U · 1**

Stolen passwords are tried on many other websites at once. A different password for each account means one break-in loses one account, not all of them.

iv. **c.** a photo of a kite you made, with nothing that shows where you live **U · 1**

The kite photo tells a stranger nothing about where to find you or how to get into your accounts. The others are personal information, and the OTP is never to be shared with anyone.

v. **b.** too good to be true, pay first, hurry, and a link you didn't ask for **A · 1**

A prize you never entered for (too good to be true), a charge before you get anything (pay first), "within one hour" (hurry), and a link to tap. Four signs in one short message.

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4 True or false

U · 3

i. ✗ **False:** The internet is the network of networks; the web is the pages joined by links that travel on it.
ii. ✓ **True**
iii. ✗ **False:** The padlock means only that the page is scrambled on its way; a fake website can have one too.
iv. ✓ **True**
v. ✓ **True**
vi. ✗ **False:** Anyone can save or screenshot it while it is up, and deleting it doesn't delete their copies.

Each carries 0.5 mark.

5 The web and searching

a. MARKING SCHEME — A · 3

✓ i. The page is sent scrambled, so nobody on the way can read it.
✓ ii. The domain is www.example-office.gov.np; .gov.np is only for Nepal's government.
✓ iii. /notices/scholarship.

b. MARKING SCHEME — A · 2

✓ A few key words, such as **Mount Everest height meters** (or **Sagarmatha height**).
✓ Words like can, you, please, tell and me are on almost every page, so they don't help find the right one.

6 Passwords

ANSWER — A · 3

3 dials: 10 × 10 × 10 = **1,000** codes.
4 dials: 10 × 10 × 10 × 10 = **10,000** codes.
10,000 ÷ 1,000 = **10 times** as many: each extra dial multiplies the number of codes by 10.

MARKING SCHEME

✓ 3 dials: 10 × 10 × 10 = 1,000.
✓ 4 dials: 10 × 10 × 10 × 10 = 10,000.
✓ 10 times as many.

7 Spot the scam

ANSWER — A · 4

i. **Too good to be true:** a huge salary with no experience needed. **Pay first:** a fee before he gets anything. **Hurry:** "today", "or your place goes to someone else". **A secret:** "don't tell anyone". (Also: it comes from an unknown number.)
ii. **Stop:** don't reply and don't pay. **Tell an adult** he trusts, straight away, and show them the message. **Block and report** the number, and delete the message once an adult has seen it.

MARKING SCHEME

✓ Any two signs: too good to be true; pay first; hurry; a secret; an unknown number.
✓ Any two more of these.
✓ Don't reply or pay anything.
✓ Tell a trusted adult, then block and report the number.

8 Being kind online

MARKING SCHEME — U · 2

✓ Any two of: don't reply angrily; save the proof (screenshots with the name and date); block the person; report them in the app; tell an adult she trusts.
✓ Any two more of these.

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9 Think

ANSWER **HA · 2**

The code is the second step of two-step login (or lets someone set a new password): with it, he can get into her email. Her strong password wouldn't help. It stops guessing, not tricks: the caller doesn't need to guess it if Maya gives him the code. She should hang up, tell no code (an OTP is for her to type, never to tell), and check by calling the company on its official number.

MARKING SCHEME

- ✓ The code lets him into her account: it is the step that a password alone can't pass (or it sets a new password).
- ✓ No: a strong password stops guessing, not tricks; only never telling the code protects her.

10 Activity: Scams in my family

(not marked)

WHAT STUDENTS SHOULD FIND

Most families have had at least one: a prize or lucky draw, a call from "the bank" or "customer support" asking for a code, a parcel charge, a job abroad, or a message from a friend's account asking for money. Each shows the same few signs: too good to be true, pay first, a code or password, hurry, a secret, a link they didn't ask for, or the wrong sender. The right thing to have done is always the same: stop, check another way, tell someone, block and report.

Marks by level	Knowledge	Understanding	Application	Higher ability	**Total**
Marks	7	8	13	2	**30**

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