Flying Reading

A★List

Contents

FINGERPRINTS

Topic Explorer

Guess and check the true sentence(s).

○ **1** Everybody has fingerprints.

○ **2** Fingerprints change over time.

The First Fingerprints

▲ William Herschel

▲ A handprint taken by William Herschel

Tr.02

1 Fingerprints are special **patterns** on fingers. They are often used to **identify** a person. Who started using them first? It was a man named William Herschel.

2 In 1858, William was **in charge of** building roads in India. He had workers write their names on their **contracts**. One day, a man came to make a contract. Suddenly, William got an idea. He asked the man to put down his handprint on the contract **instead of** his name. This was the first time William took a person's handprint.

3 William began to **collect** people's handprints. He studied them and found out something interesting.

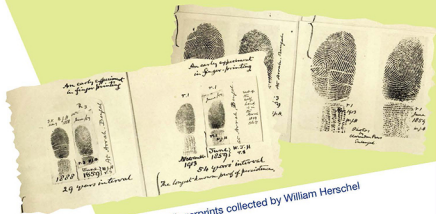▲ Fingerprints collected by William Herschel

Key Vocabulary 🔊 T01

Complete the words. Then, read their definitions.

1. patt◯rn
   a set of lines and shapes

2. identif◯
   to tell who someone or what something is

3. in ◯◯arge of
   having control of

4. ◯ont◯act
   an agreement on paper

5. inst◯◯d of
   in place of

6. col◯ect
   to get a large number of something; gather

7. ◯◯ole
   all of something

8. aft◯◯ all
   in the end

9. uniq◯◯
   being the only one of its kind

10. pr◯◯◯nt
    to stop something from happening

He didn't need **whole** handprints to identify people **after all**. He only needed fingerprints. That's because fingerprints were **unique** to everybody. They didn't change over time.

4 In 1877, William started using fingerprints for his new job. He had to give out money to old and sick people. Before, some people would collect the money using other people's names. He used fingerprints to **prevent** those people from taking someone else's money. After William, more and more people started using fingerprints.

▼ Using a fingerprint on a contract

CONTRACT
Name (Printed) and Signature   Right T

Word Wise

Find and circle the synonym of "gather" in paragraph 3.

READING **Comprehension**

Circle the correct answers.

🔺 A handprint of Michael Jackson, the King of Pop

● Main Idea

1 What is the main idea of the passage?

a. Fingerprints are important today.

b. Everyone has different fingerprints.

c. William Herschel first found the use of fingerprints.

d. William Herschel created a new form of contracts.

● Details

2 What did William ask workers to do at first when making contracts? Request

a. put down their handprints   b. write their names

c. collect their fingerprints   d. show their pictures

3 Who first put down a handprint on a contract? Details: Who

a. William   b. William's friend

c. William's father   d. William's worker

4 What did William find out after studying people's handprints? Details: What

a. Some people have the same fingerprints.

b. Whole handprints are needed to identify people.

c. People's fingerprints change when they get older.

d. Each person has unique fingerprints.

5 What problem did William have at his job in 1877? Problem

a. Some people made contracts using others' names.

b. There was not enough money to give out.

c. There were too many old and sick people.

d. Some people took someone else's money.

Important Events

Write the letters of the events in the correct order.

1858   1877

a. After William, more and more people started using fingerprints.

b. William asked a worker to put down his handprint on the contract instead of his name.

c. William began to collect people's handprints.

d. William started using fingerprints for his new job.

e. William studied people's handprints and found out that he only needed fingerprints.

Sequence

Complete the organizer with the correct words.

The First Use of Fingerprints

1. William's _____ of Handprints in 1858
- took a worker's handprint _____

2. William's Collection of _____

3. William's _____
- found fingerprints were unique and didn't change
  ➤ only needed _____ to identify people

4. William's Use of Fingerprints _____ in 1877
- stopped people from taking someone else's money

5. More People's Use of Fingerprints

- at Work
- First Use
- Handprints
- Interesting Findings
- on a contract
- fingerprints

Fingerprints
Today

Tr. 04

1 These days, fingerprints are very **useful**. We use them for many different reasons.

2 Police use fingerprints to solve **cases**. They keep a list of people's fingerprints. At **crime scenes**, they look for fingerprints. By studying them, police can identify **criminals** and catch them. They can also use fingerprints to find **missing** people.

▼ A sample of a person's fingerprints

3 Fingerprints are used in computers and smartphones for **security**. Some of them have fingerprint **sensors**. The sensors identify their users. With these sensors, people can keep their **data** safe. They can stop other people from using their data.

A smartphone with a fingerprint sensor ▶
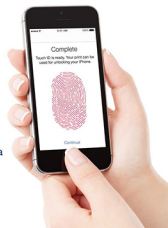
⁴ Many schools use fingerprints to **save** time for students. With fingerprints, students don't have to wait in long lines anymore. All they need is to put their fingers on a sensor. The sensor identifies the students. Then, they can buy their lunches or borrow books more quickly.

▲ Students buying lunch without waiting in a long line

⁵ Today, there are different ways to identify people. However, fingerprints are still one of the best ways. That's why they are used in so many places. Now, look at your fingerprints. Then, look at your friend's. How are they different from yours?

Key Vocabulary 🔊 T.03

Complete the words. Then, read their definitions.

❶ ◯s◯ful
having a good use

❷ c◯◯s◯
something that police are trying to solve

❸ cr◯m◯
an action that is against the law

❹ ◯◯ene
the place where something happens

❺ cri◯ina◯
a person who has done something against the law

❻ mi◯◯ing
not found; lost

❼ secur◯t◯
protection; safety

❽ sens◯r
a tool that finds something, like heat, light, sound, or movement

❾ d◯t◯
facts or information

❿ s◯v◯
to keep from being lost or wasted

Word Wise

Find and circle the synonym of "lost" in paragraph 2.

READING **Comprehension**

Circle the correct answers.

▲ Each person's eyes are unique, so they are often used for security.

● Main Idea

Reading Strategy **1** What is the main idea of the passage?

    a. Police collect criminals' fingerprints.

    b. Fingerprints are the newest way to identify people.

    c. Fingerprints are useful for many reasons.

    d. There are many different ways to identify people.

● Details

2 Who do police find using fingerprints? Details: Who

    a. smartphone users   b. students borrowing books

    c. people solving cases   d. criminals and missing people

3 How are fingerprints used in computers and smartphones? Details: How

    a. to record people who use them   b. to connect to other machines

    c. to find where their users are   d. to stop strangers from using them

4 When do students use fingerprints in school? Details: When

    a. when they buy lunches

    b. when they go into classrooms

    c. when they take tests

    d. when they use school computers

Logical Thinking: Writer's Purpose

5 Why does the writer mention crime scenes in paragraph 2?

    a. to describe how police get to work

    b. to give an example of where police collect fingerprints

    c. to list where police go to catch criminals

    d. to prove how important studying fingerprints is

READING **Summary**

Topic Sentences

Match the topic sentences with the correct paragraph numbers.

a. Police use fingerprints to solve cases.

b. Many schools use fingerprints to save time for students.

c. Fingerprints are very useful.

d. Fingerprints are used in computers and smartphones for security.

- **P1**
- **P2**
- **P3**
- **P4**

Main Idea and Details

Complete the organizer with the correct words.

Uses of Fingerprints

Main Idea

Fingerprints are [_____].

Detail 1: Used by Police to [_____]
- to identify criminals and catch them
- to find missing people

Detail 2: Used in [_____]
for Security
- to identify users
- to keep users' data safe and stop others from using it

Detail 3: Used by Students to [_____]
- to buy lunches or borrow books more quickly

- Computers and Smartphones
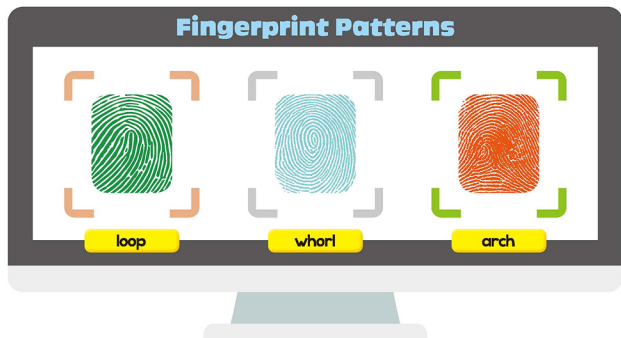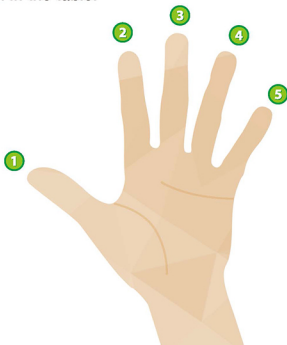- Save Time
- Solve Cases
- very useful

My Fingerprints

A. Look at the fingers on your left hand and the fingerprint patterns.

Fingerprint Patterns

loop	whorl	arch

B. What patterns do your fingers have? Fill in the table.

Finger Number	Pattern
1	
2	
3	
4	
5	

Flying English

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