

# 5.2 Digital currency

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_ **Total: 9 marks**

**KEY WORDS** digital currency 数字货币 • digital ledger 数字账本 • blockchain 区块链  
• transaction 交易 • electronic form 电子形式

## Objective

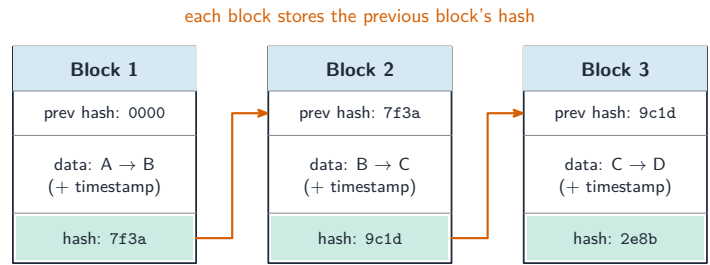
Build the skills to answer exam questions on **digital currency** 数字货币 — what it is, and how **blockchain** 区块链 keeps it secure.

You must be able to:

- describe digital currency
- describe a blockchain (a digital ledger of transactions)
- explain how the hash chain detects tampering

## 1 Worked examples

### ■ Blockchain



Each block stores data, a timestamp and a hash, plus the previous block's hash — chaining them

- **digital currency:** money in electronic form only (no coins/notes).
- changing an old block changes its hash, so it no longer matches the next block — the change is spotted.

## 2 Practice

2.1 Define digital currency. [1]

2.2 State the three things stored in a blockchain block. [3]

## 3 Exam-style questions

3.1 A blockchain is best described as a: [1]

- |   |   |
|---|---|
| A | B |
| C | D |
- A single private record
  - B shared digital ledger copied across many computers
  - C type of cookie
  - D web browser

3.2 Blockchain makes records hard to change.

(a) Explain how the hash links the blocks together. [2]

(b) Explain why changing one old block is detected. [2]