

## 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.

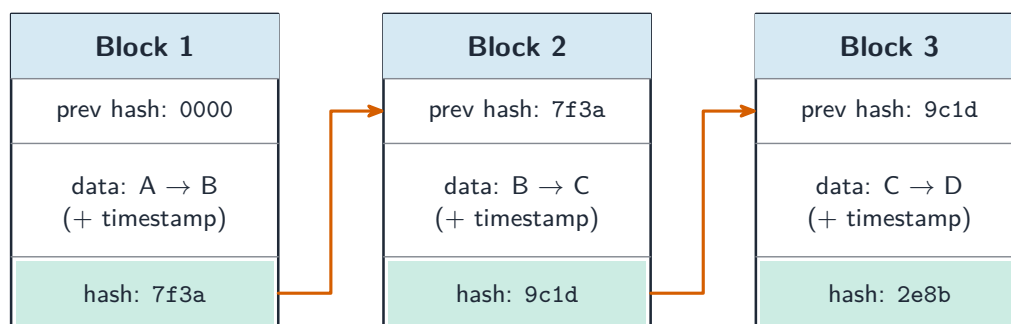
You must be able to:

- 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 the previous block's hash



*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]

---

---