

## Exercise walk-through

Technological Innovations from 1450 to 1750 ■ 4.1

eXercise

## You must be able to

- name the three sources of the knowledge that reached Europe
- name the three developments the CED lists
- state what those developments made possible
- explain why 'facilitating European developments' is a claim about transmission

## Method — Three sources

Knowledge, scientific learning and technology from the **Classical, Islamic and Asian** worlds spread, facilitating European technological developments and innovation.

## Method — Three developments

The production of **new tools**, innovations in **ship designs**, and **an improved understanding of regional wind and current patterns** — a tool, a vessel, and a body of knowledge.

## Method — What they made possible

All of which **made transoceanic travel and trade possible**. The CED makes the voyages depend on the technology, not on courage or curiosity.

## Method — Transmission

The European developments are described as **facilitated** by knowledge from elsewhere. Unit 2's networks carried the knowledge that unit 4's voyages used.

## Practice 2.1 ■ 3 marks

Name the three sources of the knowledge that spread.

## Solution 2.1

Method: Three sources

### Worked steps

the Classical world **B1**; the Islamic world **B1**; the Asian world **B1**.

## Practice 2.2 ■ 3 marks

Name the three developments and classify each.

## Solution 2.2

### Worked steps

new tools — a tool **B1**; ship design innovations — a vessel **B1**; wind and current knowledge — a body of knowledge **B1**.

## Practice 2.3 ■ 1 mark

The CED says European developments were facilitated.

- (a) State what this means about their origin.
- (b) State the link to unit 2.

## Solution 2.3

Method: Transmission

### Worked steps

(a) that the knowledge came from outside Europe and was built on there **B1**. (b) unit 2's networks carried the knowledge unit 4's voyages used **B1**.

## Exam-style 3.1 ■ 1 mark

The developments are said to have made possible

- A** land empires
- B** transoceanic travel and trade
- C** the printing press
- D** the plague

## Solution 3.1

Method: What they made possible

- A land empires
- B transoceanic travel and trade** 
- C the printing press
- D the plague

### Worked steps

- B. the CED's own phrase.

## Exam-style 3.2 ■ 1 mark

The improved understanding concerned

- A** regional wind and current patterns
- B** crop rotation
- C** metallurgy
- D** taxation

## Solution 3.2

Method: Three developments

**A** regional wind and current patterns



**B** crop rotation

**C** metallurgy

**D** taxation

### Worked steps

**A.** wind and current patterns.

## Exam-style 3.3 ■ 1 mark

A technique developed in one region is used to reach another.

- (a) State what this shows about the voyages.
- (b) Explain why this weakens a purely European account.

## Solution 3.3

Method: Transmission

### Worked steps

(a) that they rested on knowledge accumulated across Afro-Eurasia **B1**. (b) the enabling knowledge was Classical, Islamic and Asian **B1**, so the voyages are an outcome of connection rather than of one region alone **B1**.