

4.1 Technological Innovations from 1450 to 1750

Name: _____ Class: _____ Date: _____ **Total: 13 marks**

KEY WORDS ship design 船舶设计 • technological basis 技术基础

Objective

Build the skills to explain the **technological basis** 技术基础 of transoceanic travel.

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

1 Worked examples

Study these first. Each one shows the method for a task used later.

■ Three sources

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

■ 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.

■ 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.

■ 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.

2 Practice

2.1 Name the three sources of the knowledge that spread. [3]

2.2 Name the three developments and classify each. [3]

2.3 The CED says European developments were facilitated.

(a) State what this means about their origin. [1]

(b) State the link to unit 2. [1]

3 Exam-style questions

3.1 The developments are said to have made possible [1]

A	B
C	D

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

3.2 The improved understanding concerned [1]

A	B
C	D

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

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

(a) State what this shows about the voyages. [1]

(b) Explain why this weakens a purely European account. [2]
