

6.5 Technological Innovation

Name: _____ Class: _____ Date: _____

Total: 12 marks

Objective

Build the skills to explain **technological innovation** 技术创新.

You must be able to:

- state the CED's claim about businesses and technology
- name the two things businesses made use of
- explain why access to natural resources appears beside technology
- connect this subtopic to 6.6

1 Worked examples

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

■ The claim

Businesses made use of technological innovations and greater access to natural resources to dramatically increase the production of goods.

■ Two inputs

Technological innovations and greater access to natural resources. A machine without material produces nothing, so the CED names both.

■ Why resources

6.2's railroads and mineral discoveries supplied the access. The technological subtopic therefore depends on the western subtopic —production rose because the continent's resources became reachable.

■ Link to 6.6

6.6 adds the other half: **redesigned financial and management structures, advances in marketing, and a growing labor force.** Technology and resources are the physical inputs; 6.6 supplies the organisational ones.

2 Practice

2.1 State the CED's claim about businesses and technology.

[2]

2.2 Explain why access to natural resources appears beside technology. [2]

2.3 6.5 and 6.6 divide the explanation.

(a) State what each supplies. [2]

(b) State which earlier subtopic supplied the access. [1]

3 Exam-style questions

3.1 Businesses used technological innovations and greater access to [1]

- **A** natural resources
 - **B** foreign markets only
 - **C** federal land grants only
 - **D** enslaved labour
-

3.2 6.6 adds financial and management structures, marketing and [1]

- **A** a growing labor force
 - **B** more machines
 - **C** more coal
 - **D** more railroads
-

3.3 A factory has new machinery and no reliable supply of raw material.

(a) State the outcome. [1]

(b) Explain why the CED names both inputs. [2]

4 Go further

- work through the **6.5 Technological Innovation** lesson on the **Learn** page;
- read the **Period 6: 1865-1898** section of the AP US History handout on the **Know** page.

Solutions

2.1 they made use of technological innovations and greater access to natural resources to dramatically increase the production of goods.

2.2 a machine without material produces nothing, so increased output required both.

2.3 (a) 6.5 supplies the physical inputs; 6.6 supplies the organisational ones. (b) 6.2's railroads and mineral discoveries.

3.1 A. natural resources.

3.2 A. a growing labor force.

3.3 (a) production does not rise. (b) each input is necessary and neither is sufficient, so an increase in output requires both to be present.