

# 中学校の情報教育と教員研修

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# Goals of information education (development of ability to utilize information)

## Ability to utilize information

Necessary qualities and abilities — observe and assimilate various phenomena in the world as information and connections and utilize information and information technology appropriately and effectively to discover and solve problems and form their own ideas

## Knowledge and skills

- Understanding how to find and solve problems using information and information technology
- Understanding the role, impact, and growth of computerization in society
- Understanding the legal systems and conventions related to technology
- Understanding individuals' roles and responsibilities
- Acquiring the skills required to properly utilize information and information technology

## Thinking, judgment, expression, etc.

- Ability to grasp various phenomena from the viewpoint of information and connections, and connect multiple pieces of information to find new meanings
- Ability to use information technology appropriately and effectively to find and solve problems

## Attitude toward learning, human nature, etc.

- Attitude toward using information and information technology appropriately and effectively and participating independently in the information society and contributing to its development.

# Positioning of information education

## Fostering in all educational activities

- Promote the ability to utilize information as “the qualities and abilities that form the basis of learning” and stressing the aim of fostering it in all educational activities
- Enhance learning activities using ICT

## Fostering in related subjects

- Japanese language: “How to handle information”  
Relationship between information  
Organizing information
- Mathematics: “Utilization of data”  
Trends and comparison of data distribution  
Specimen survey, etc.
- Morality: “Information ethics”  
Ethics in the information society  
Understanding and observing the law
- Technology / Home Economics Technology field  
« Contents » “D Technology of information processing”

# Information education in the technical field

## Details of technical fields

- A. Technology of materials and their processing
- B. Technology of nurturing living things
- C. Technology of energy conversion
- D. Technology of information processing

## Content D Goals

**Developing qualities and abilities to build a better life and a sustainable society through information technology**

### Knowledge and skills

- Understanding information technology
- Acquiring skills related to information technology
- Understanding the relationship between information technology and life, society, and the environment

### Thinking, judgment, expression, etc.

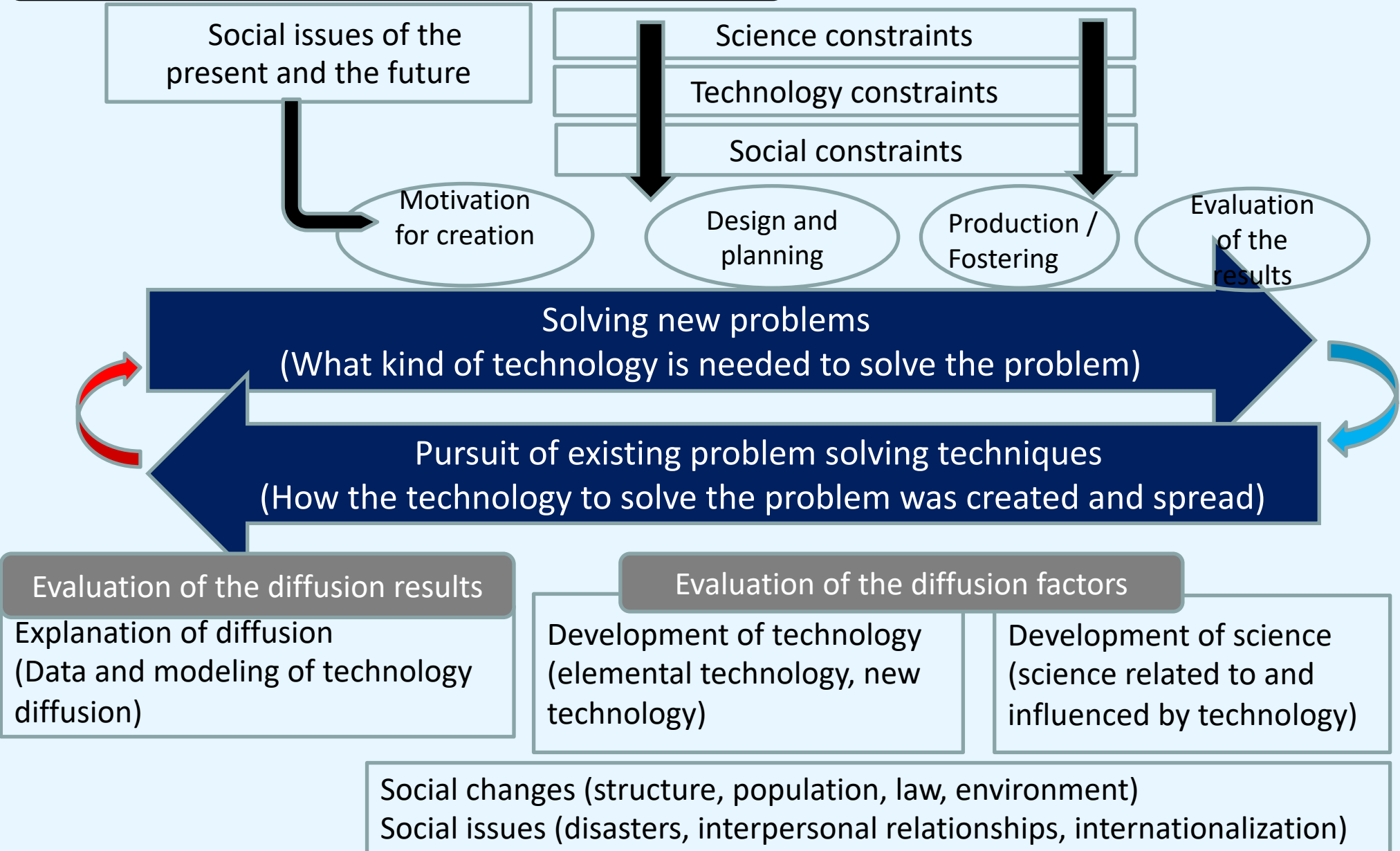
- Identify problems in life and society, set out issues, and solve them using information technology

### Attitude toward learning, human nature, etc.

- Attitude toward creating information technology to improve quality of life and build a sustainable society

# Information education in the technology field

## Learning process in the technology field



# Improving the quality of teachers

## How to improve the quality of teachers

Cultivation

OJT

Training in recruitment

Voluntary study sessions

Role sharing and cooperation

### Clarification of goals

Qualities and abilities required of leaders

Knowledge  
and skills

Thinking,  
judgment,  
expression,  
etc.

Attitude  
toward learn,  
human  
nature, etc.

### Specification of content and method

Content for each  
scene

Lectures, practical  
training, research

	First year			Second to fifth year			Coordinating and advising teachers			Principals and vice-principals		
Nationally sponsored training								•	•			
Training in prefectures	•	•						•	•			•
Training for the city and town	•	•			•	•						
Training schools	•	•		•	•	•						
Voluntary study sessions				•	•	•	•	•	•			