

# **Solution of Multimedia Digital Classroom**

## **(Geography) - Introduction**

### **Purposes:**

For Practical teaching, research-based learning, school curriculum development and interest group activities, the combination of natural geography and human geography.

Make full use of modern digital education technology, provide students with more high-quality and updated scientific information.

To establish a diversified and selective geographical teaching environment to meet students' different learning needs of exploring natural mysteries, understanding social living environment and mastering modern geographical science, technology and methods.

Beyond traditional classroom and traditional media and technology teaching mode, provide the environment of independent learning based on digital information.

### **Requirement:**

In order to facilitate students to access a variety of geographical information data such as dynamic environmental data, remote sensing and telemetry data and geographical case data involved in each course standard and textbook, facilitate students to carry out practical activities, and create conditions for exploratory learning and subject experimental activities; Create conditions for heuristic, inquiry-based, discussion and participatory teaching.

### **Functions:**

It is convenient for students to be familiar with, touch and operate conventional geographical teaching instruments and modern geographic information technology.

### **Construction requirements:**

Ground:

Doors and Windows:

Metope:

Integrated wiring system:

Power load:

### **Environmental requirements:**

Daylight:

Lighting:

Power supply:

Shading:

Ventilation:

Environmental protection:

Safety:

### **Design:**

Through the combination of digital planet system and plane projection, it provides advanced digital teaching environment for geography teaching, popular science activities and environment education.



Using the curved surface projection display form of the ring screen system, video data of the universe, earth and geological disasters are played, which has a very shocking effect on the introduction of the course.


This demo expounds the integrity and difference of natural geographical environment through the interactive demonstration system of digital three-dimensional terrain and digital planet.

Through the demonstration of digital three-dimensional terrain, students can intuitively understand the world sea and land distribution, continental terrain, geographical features, mountain and river profiles, as well as global climate characteristics, the distribution of major climate types.

## Teaching instruments and equipment:

### 1. Audio-visual equipment and special instruments:

Nos.	Equipment Name	Specifications	Remark
01	Multimedia ball screen projection demonstrator	<p><b>Hardware requirements:</b> Equipment composition: including seamless spherical screen, fish-eye lens, projection base (including high-definition engineering projection system), remote control</p> <p><b>Software requirements:</b> With the cooperation of the control software and hardware system, the 2d image can be displayed as 360° 3d images on the spherical screen to simulate various celestial bodies, stars and spheres realistically. Support users to add their own presentation content. Provide users with PowerPoint, FLASH and HTML files for secondary development of the software interface</p>	
02	Astronomical demonstration dome		

03	Digitized stereotopography	<b>Hardware composition:</b> World stereoscopic terrain Push-Pull whiteboard Projector Computer  <b>Software platform:</b> Dual channel interactive software	
04	Ceiling speakers and amplifiers		
05	Multimedia platform (built-in central control system)		

## **Geographic models and specimens:**

Geographical science knowledge curtain

Wall light box

Calculator

Telescope

Digital telescope

Instrument shelter

Instrument storage cabinet

World clock

Thermometer

Acidity meter

Compass

Barometer

Rain gauge

Noise meter

Dust meter

Almanac

Sun, earth and moon moving instrument

Water Flow demonstration device

Crustal movement demonstrator

Atmospheric circulation tester

Atmospheric dust monitor

Cloud and fog generation tester

Global positioning experimental teaching system

Geography teaching AIDS system  
Research-based learning system  
Plane political district globe  
Plane topographic globe  
Stereographic globe  
Longitude and latitude model  
Celestial globe  
Plate tectonics and surface morphology models  
Fold structure and geomorphologic evolution model  
Fault structure and horst graben development model  
Models of the structure of the earth's interior  
18 kinds of landscape  
Petromineral specimen  
soil specimen  
Experimental materials for geographical activities  
Geographical field practice equipment  
Model display cabinet

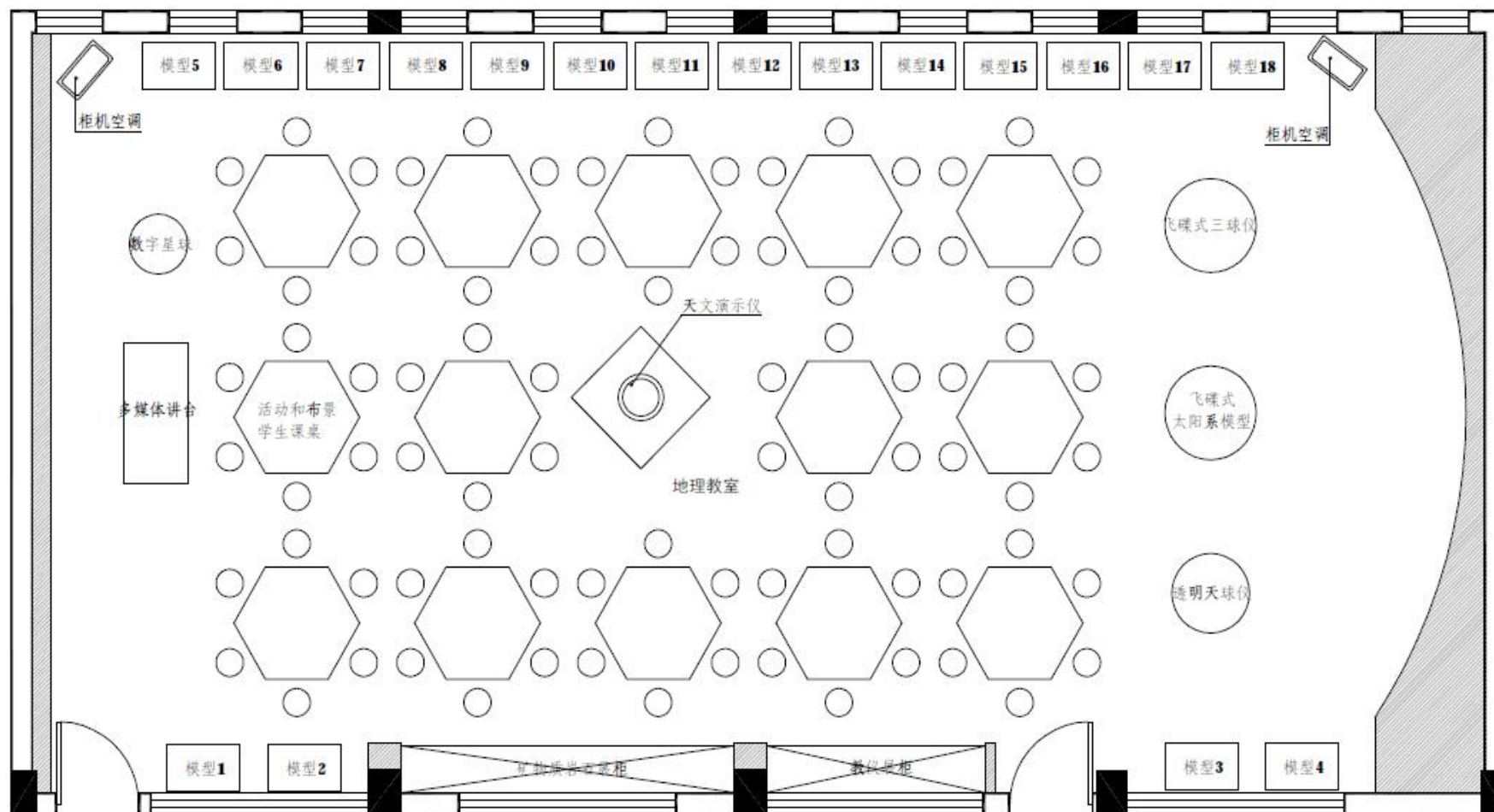
Other equipment and instruments according to school's need and request.

### **Student desk and chair:**

Interactive desk and chair

### **Foundation decoration:**

## Classroom plan (for reference):



**Classroom effect (for reference):**





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