

Pre-K Spring Syllabus



	Topic	Knowledge Point	Content	Ability
1	Chase it!	Visual Tracking	Extend students' attention duration, enhance their attention stability, and help them better adapt to the class through difference contrast and visual tracking practices.	Reasoning
2	Taking Photos	Pictures in Different Views	Through multi-angle observation, discover the differences in object views, gradually transitioning from real objects to abstract graphics, laying a foundation for spatial imagination ability.	Spatial Sense
3	Step by Step	Map and Direction	By learning map basics, students can distinguish between real photos and maps, understand basic map elements, read simple maps, and identify directions (up, down, left, right). They will also gain a basic understanding of world orientation and be able to express it.	Expression
4	Tidy Up	Statistical Graph	Approach multi-angle classification: classify the same group of items from multiple perspectives such as size, color, shape, and type. According to the statistical table, classify and count the items, and compare and express the results.	Measurement and Data
5	Kingdom of Origami	Origami	Through hands-on practice, children can understand the basic folding methods of origami, and be able to independently complete simple origami works. By combining "hole punching games" with mathematical and corresponding thinking, children can exercise their independent hands-on operation ability and spatial imagination ability.	Creativity
6	One Day in Cannery	Number Bond	By using real objects, explore the orderly separation of quantities through hands-on activities, and understand the relationship between the whole and the parts. Combine with real-life scenarios to solve problems related to the combination and separation of quantities in daily life.	Number
7	Shape Beauty Contest	Polygon	Learn polygons on the basis of understanding basic plane shapes. Guide children to observe polygons with different numbers of sides. Find common polygons in life and improve their observation of shapes.	Spatial Sense
8	Party at Beach	Subtraction in 10	Explore "decrease" of objects in life and solve the problem of "how much is left" by counting back. Students will describe the change in quantity with subtraction expression using minus and the equal signs, and solve subtraction problems within 10.	Number
9	Rolling Shapes	Introduction to Solid Figure	Recognize and feel three-dimensional shapes. Students will learn to distinguish cylinders, cones, and spheres (roll, stack). Through tactile games in class, they will experience the characteristics of different shapes and learn about their faces.	Spatial Sense
10	Squary the Pirate	Elimination	In the interesting story, lead the children to experience the magic of elimination method, cultivate the thinking habit of orderly thinking and the ability to solve problems.	Reasoning
11	Top it up	Addition Word Problem	Students will learn how addition within 10 can solve problems encountered in everyday life. They will also understand the two meanings of addition: combining and increasing quantities.	Number
12	Lost in Castle	3D Maze	By solving maze problems, students can improve their spatial sense and problem-solving skills. In class, students will learn how to analyze and solve problems, as well as how to create and design their own mazes. Help students improve their hand-eye coordination, and cultivate their creativity and logical thinking skills.	Spatial Sense
13	Float and Sink	Buoyancy Test	Ident	

Kindergarten Spring Syllabus

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	Topic	Knowledge Point	Content	Ability
1	Secrets in Graph	Understand Graph	Learn to read and get information from picture graphs and bar graphs. This enhances students' data interpretation and analytical skills.	Measurement and Data
2	Number Clash Adventure	Comparison of Numbers within 100	Learn to understand greater than and less than signs, compare numbers within 100, and sort multiple numbers based on their values. It can enhance students' ability in numerical comparison.	Number
3	Priceless Treasure	Understand Full Hours	Understand clocks and recognize whole hours. This enhances students' time-telling skills.	Measurement and Data
4	Rotating Restaurant	Complex Pattern	Introduce students to rotational patterns by exploring how single shapes or objects appear when rotated. Students will discover the fascinating principles of rotation and the complex rules of composition.	Reasoning
5	The Beauty of the Nature	Number Bond	Understand number bonds and learn to use parts to find the whole, or find the missing part with the whole and part.This enhances students' arithmetic skills and their ability to solve part-whole relationship problems.	Number
6	Treasure on the Island	Number Puzzles in Grids	Develop the reasoning ability by solving the number puzzles in grids and experiencing the fun of "treasure hunting". Students will explore the breakthrough points and methods to complete the puzzles.	Reasoning
7	Everyday Enigmas	Experimental Inquiry	Help students understand some special design and interesting phenomenon through experiment.This improves students' critical thinking and observational skills.	Critical Thinking
8	Simon Says	Identify Positions	Understand your own left and right and others' left and right.This enhances students' spatial awareness and directional skills.	Spatial Sense
9	Build a Skyscraper	Tower of Hanoi	Understand the rules of Hanoi Tower and know how to move several disks from one tower to another with the fewest steps. This enhances students' logical thinking and strategic planning skills.	Creativity
10	Welcome to Mathland!	Simple Number Puzzles	Understand number puzzle in a line and a triangle. Be able to find the missing number with the given sum.This enhances students' numerical reasoning.	Number
11	Home of Little Bee	Identify Regular Shapes	Learn to use shapes to do tiling and complete shapes based on given parts. This enhances students' spatial reasoning and their hands-on skills.	Creativity
12	Mocha Warriors	Positional Reasoning	Understand the rules of a card game with clues on positions. Practice logical reasoning skills to find correct position for each card. It helps to cultivate children's strategic thinking.	Reasoning
13	Cut and Count	Counting Shapes	Learn the concept of "splitting and completing" geometric shapes. Practice by first dividing the shape into parts, then completing it to form a half. This activity enhances children's spatial reasoning and problem-solving skills, fostering mathematical thinking.	Spatial Sense
14	The Strange Hat	Three Views	Understand three views of physical objects and cube combinations. This enhances students' spatial visualization and geometric reasoning skills.	Spatial Sense
15	Animal Chess	Sudoku	Determine the number of visible cubes from each direction and learn to complete the puzzles accordingly. It enhances students' spatial reasoning and problem-solving skills.	Reasoning
16	In Line For A Movie	Lining Up Problems	Understand positions using ordinal numbers and identify the number of people before and after a main character by drawing	

