

COURSE OUTLINE

Grade 4

Time allotment: 35 weeks (2 periods/week), one week of Math and one week of Science.

Textbook: Math in my world 4 & Amazing science 4

Week	Subject	Topic	Objective	Content
1	Back to school	Back to school	To introduce themselves. To know some classroom rules. To practice speaking, listening skills.	Introduce name, age. Introduce some some classroom rules
2	Math	Unit 1: Numbers to 1000	To talk and write numbers to 1000 To indentify the place value of numbers ro 1000	1. Vocabulary: ones, tens, hundreds, thousands, ... 2. Patterns: 10 ones = 1 ten 10 tens = 1 hundred 10 hundreds = 1 thousand
3	Science	Unit 1: Water	To talk about the features of water To talk about the uses of water	1. Vocabulary: solid, liquid, gas, color, smell, taste.... 2. Patterns: Water is the liquid form. / Ice is the solid form of water. / Water vapor is the gas form of water. We use water for drinking/ cleaning/...
4	Math	Unit 2: Addition and Subtraction within 1000	To talk about addition and subtraction within 1000	1. Vocabulary: add, subtract, ones, tens, hundreds, thousands, ... 2. Patterns: Arrange the numbers vertically. Add/ subtract the ones. Add/ subtract the tens. Add/ subtract the hundreds.

5	Science	Unit 1: Water (cont)	To talk about the origins of water To talk about the cycle of water	Vocabulary: evaporation, condensation, precipitation
6	Math	Unit 3: Numbers to 10000	To talk and write numbers to 10000 To indentify the place value of numbers ro 10000	1. Vocabulary: ones, tens, hundreds, thousands, ten thousands 2. Patterns: 10 ones = 1 ten 10 tens = 1 hundred 10 hundreds = 1 thousand 10 thousand = 10,000
7	Science	Unit 2: Air	To talk about the features of air	1. Vocabulary: atmosphere, Nitrogen, Oxygen, Carbon dioxide, ship, breathe, wind. 2. Patterns: Air is a mixture of gases.... Air has no smell, color, or shape. We cannot see the air, but we can feel it. People/ birds/ plants/ fire/ need air to
8	Math	Unit 4: Addition and Subtraction within 10000	To talk about addition and subtraction within 10000	1. Vocabulary: add, subtract, ones, tens, hundreds, thousands, ten thousands 2. Patterns: Arrange the numbers vertically. Add/ subtract the ones. Add/ subtract the tens. Add/ subtract the hundreds. Add/ subtract the thousands.

9	Science	Unit 2: Air (con't)	To talk about the uses of air	<p>People need oxygen to breathe.</p> <p>Plants need carbon dioxide to make food.</p> <p>Fire needs oxygen to burn.</p> <p>Birds need air to fly.</p> <p>Ships need air to sail.</p>
10	Math	Unit 5: Numbers to 100000	<p>To talk and write numbers to 100000</p> <p>To identify the place value of numbers to 100000</p>	<p>1. Vocabulary: ones, tens, hundreds, thousands, ten thousands, hundred thousands</p> <p>2. Patterns:</p> <p>10 ones = 1 ten</p> <p>10 tens = 1 hundred</p> <p>10 hundreds = 1 thousand</p> <p>10 thousands = 10,000</p>
11	Science	Unit 3: Heat and light	To talk about the features of heat and light	<p>1. Vocabulary: cook, warm, dry, see, decorate, candle, fire, lamp, flashlight</p> <p>2. Patterns:</p> <p>Heat energy/ Light energy comes from....</p> <p>We use heat from the sun/ fire to....</p> <p>We use light to</p> <p>We also use light to</p>
12	Math	Unit 6: Addition and Subtraction within 10000	To talk about addition and subtraction within 10000	<p>1. Vocabulary: add, subtract, ones, tens, hundreds, thousands, ten thousands</p> <p>2. Patterns:</p> <p>Arrange the numbers vertically.</p> <p>Add/ subtract the ones.</p> <p>Add/ subtract the tens.</p> <p>Add/ subtract the hundreds.</p> <p>Add/ subtract the thousands.</p>

13	Science	Unit 4: Sound	To talk about the features of sound and the things make sound	Vocabulary: bell, drum, guitar, speakers, vibrate
14	Math	Review	Review for Semester Test 1	Review for Semester Test 1
15	Science	Review	Review for Semester Test 1	Review for Semester Test 1
16	Math	Semester 1 test	Semester 1 test	Semester 1 test
17	Science	Semester 1 test	Semester 1 test	Semester 1 test
18	Math	Unit 7: Rounding numbers to the nearest tens and hundreds	To talk about rounding numbers to the nearest tens and hundreds	<p>1. Vocabulary: round, round down, round up, less than, more than, the nearest....</p> <p>2. Patterns: We need to identify the digit to the right of the tens column depending on what we are rounding to. If this digit is less than 5, round down. If this digit is 5 or more than 5, round up.</p>
19	Science	Unit 5: Needs of plants and animals	To talk about needs of plants and animals	<p>1. Vocabulary: sunlight, temperature, soil, photosynthesis, shelters, carbon dioxide, oxygen...</p> <p>2. Patterns: Plants/ Animals need to live.</p>
20	Math	Unit 8: Statistical Table	To talk about the statistical table	<p>1. Vocabulary: statistical table, types, numbers, donate, count, ...</p> <p>2. Patterns: The students counted the number of the books.d do the statistical table of some objects</p>

21	Science	Unit 5: Needs of plants and animals (cont)	To talk about the groups of animals	<p>1. Vocabulary: herbivores, carnivores, omnivores</p> <p>2. Patterns: Animals that eat plants are herbivores. Animals that eat other animals are carnivores. Animals that eat both plants and animals are omnivores.</p>
22	Math	Unit 9: Unit of Mass	To talk about the mas of some objects	<p>1. Vocabulary: mass, ton, quintal, yen, kilogram and gram....</p> <p>2. Patterns: Each unit of mass is 10 times larger than the one to its immediate right.</p>
23	Science	Unit 6: Food chains	To talk about the food chain	<p>1. Vocabulary: a food chain, producer, consumer, shrimp, tuna, seaweed, grass, grasshopper</p> <p>2. Patterns: A food chain is the feeding relationships between organisms in an ecosystem. Most food chains start with a producer and end with a consumer. Producers make their own food and produce energy. Consumers don't produce energy. They eat other animals or plants to get energy.</p>
24	Math	Unit 10: Average	To talk about the average	<p>1. Vocabulary: average, sum, addend....</p> <p>2. Patterns: How can you find the average, or the arithmetic meaning of a set of numbers? Step 1: Find the sum of the numbers. Step 2: Divide the sum by the number of addends.</p>

25	Science	Unit 7: Fungi	To talk about types, features and uses of fungi	<p>1. Vocabulary: mushrooms, yeast, mold, snow fungus, straw mushrooms, wood ear mushrooms, death caps, fly agarics...</p> <p>2. Patterns: Fungi are a group of living things including mold, mushrooms and yeast. Fungi aren't plants/animals.</p> <p>There are some edible mushrooms like snow fungus, straw mushrooms, or wood ear mushrooms.</p> <p>We make food from them. We use yeast to make bread or cakes. We use mold to make cheese or medicines, ...</p> <p>There are some poisonous mushrooms like death caps or fly agarics. They make us sick or die.</p>
26	Math	Unit 11: Seconds- minutes - hours	To talk about seconds-minutes-hours	<p>1. Vocabulary: second, minute and hour, second hand, minute hand, hour hand....</p> <p>2. Patterns: Each hour had 60 minutes and each minute had 60 seconds. How many minutes are there in 24 hours? 24 multiplied by 60 equals 1440.</p>
27	Science	Unit 8: Nutrition groups	To talk about the food groups	<p>1. Vocabulary: proteins, carbohydrates fats, vitamins and minerals, ...</p> <p>2. Patterns: Carbohydrates provide the most energy for our bodies. Proteins build and repair our muscles. Fats provide and store energy, keep our bodies warm and help our bodies absorb vitamins A, D, E and K. Vitamins and minerals keep our bodies healthy and fight against diseases.</p>

28	Math	Unit 12: Month - Year - Century	To talk about month, year and century	<p>1. Vocabulary: months, year and century....</p> <p>2. Patterns:</p> <p>There are 12 months in a year.</p> <p>There are 28, 29, 30 or 31 days in a month. Century: 1 century = 100 years.</p> <p>From the 1st year to the year 100 is called the 1st century (Century I).</p> <p>From the year 101 to the year 200 is called the 2nd century (Century II).</p> <p>From the year 201 to the year 300 is called the 3rd century (Century III).</p> <p>From the year 1901 to the year 2000 is called the 20th century (Century XX).</p> <p>From the year 2001 to the year 2100 is called the 21st century (Century XXI).</p>
29	Science	Review	Review for Semester Test 2	Review for Semester Test 2
30	Math	Review	Review for Semester Test 2	Review for Semester Test 2
31	Science	Semester 2 test	Semester 2 test	Semester 2 test
32	Math	Semester 2 test	Semester 2 test	Semester 2 test
33	Science	Unit 8: Nutrition groups	<p>To review about the food groups their uses</p> <p>To talk about the food groups' uses</p>	Review about the food group
34	Math	Unit 13: Angles	To talk about the types of angles	obtuse angle, acute angle, right angle, straight angle.
35	Science	Outdoor activities	Outdoor activities	Outdoor activities