

Chương V. YÊU CẦU VỀ KỸ THUẬT

Yêu cầu về kỹ thuật mang tính kỹ thuật thuần túy và các yêu cầu khác liên quan đến việc cung cấp dịch vụ (trừ giá). Yêu cầu về kỹ thuật phải được nêu đầy đủ, rõ ràng và cụ thể để làm cơ sở cho nhà thầu lập E-HSDT.

Trong yêu cầu về kỹ thuật không được đưa ra các điều kiện nhằm hạn chế sự tham gia của nhà thầu hoặc nhằm tạo lợi thế cho một hoặc một số nhà thầu gây ra sự cạnh tranh không bình đẳng.

Yêu cầu về kỹ thuật bao gồm các nội dung cơ bản như sau:

1. Giới thiệu chung về dự án/dự toán mua sắm, gói thầu:

Tên gói thầu: Giảng dạy tiếng Anh thông qua môn Toán và Khoa học cho học sinh

Tên dự án: Giảng dạy tiếng Anh thông qua môn Toán và Khoa học cho học sinh

Địa điểm thực hiện dự án: Trường Tiểu học Lê Đình Chinh

Thời gian thực hiện: 09 tháng

2. Mục tiêu công việc:

Phát triển kỹ năng tiếng Anh của học sinh tiểu học một cách tự nhiên thông qua việc học kiến thức Toán và Khoa học.

Tăng cường khả năng sử dụng tiếng Anh trong các tình huống học thuật, đặc biệt là các thuật ngữ và khái niệm của môn Toán và Khoa học.

Nâng cao tư duy logic, khả năng phân tích và giải quyết vấn đề của học sinh thông qua các bài học tích hợp.

Tạo môi trường học tập tích cực, khuyến khích học sinh chủ động giao tiếp, hợp tác và sáng tạo.

Giúp học sinh làm quen với phương pháp học tập theo chuẩn quốc tế, tạo nền tảng cho việc học ở các bậc học cao hơn.

Đảm bảo ít nhất 90% học sinh đạt chuẩn đầu ra về năng lực tiếng Anh theo thang đánh giá đã được phê duyệt (ví dụ: CEFR A1/A2 hoặc tương đương).

Tăng mức độ hứng thú và động lực học tập thông qua các hoạt động trải nghiệm, dự án và thí nghiệm khoa học.

3. Yêu cầu kỹ thuật của gói thầu:

3.1 Mô tả chi tiết kỹ thuật, tiêu chí chất lượng và phương pháp dạy học

a. Mô tả chi tiết kỹ thuật

➤ Nội dung giảng dạy:

- Chương trình tiếng Anh tích hợp nội dung môn Toán và Khoa học, được xây dựng theo chuẩn đầu ra đã được phê duyệt.

- Nội dung phải đảm bảo phù hợp với lứa tuổi tiểu học, đảm bảo tính logic, liên kết và phát triển kỹ năng ngôn ngữ song song với kiến thức chuyên môn.
- Giáo trình sử dụng có bản quyền, kèm theo tài liệu bổ trợ, học liệu số và bài tập thực hành.

➤ Đối tượng áp dụng:

- Học sinh tiểu học từ lớp 1 đến lớp 5.
- Chia theo trình độ tiếng Anh hiện tại để đảm bảo nội dung phù hợp năng lực.

➤ Yêu cầu đối với giáo viên:

- Giáo viên nước ngoài có chứng chỉ giảng dạy tiếng Anh quốc tế (CELTA, TESOL, TEFL hoặc tương đương).

- Có kinh nghiệm tối thiểu 2 năm giảng dạy tiếng Anh tích hợp môn học.
- Có khả năng sử dụng phương pháp sư phạm phù hợp với lứa tuổi tiểu học.

b. Tiêu chí chất lượng

Chất lượng ngôn ngữ: Phát âm chuẩn, sử dụng ngữ pháp và từ vựng chính xác.

Tính tích hợp nội dung: Liên kết mạch lạc giữa tiếng Anh và kiến thức môn Toán, Khoa học.

Tính tương tác: Học sinh được tham gia các hoạt động nhóm, trò chơi học tập, thí nghiệm khoa học.

Tiến bộ học tập: Tỷ lệ học sinh đạt chuẩn đầu ra $\geq \dots\%$ theo tiêu chí đã phê duyệt.

Hài lòng của phụ huynh và học sinh $\geq \dots/5$ điểm trong khảo sát cuối khóa.

c. Phương pháp dạy học

Phương pháp tích hợp (Content and Language Integrated Learning - CLIL): Lồng ghép tiếng Anh với nội dung môn học Toán, Khoa học.

Phương pháp học qua dự án (Project-based learning): Học sinh thực hiện các dự án nhỏ, kết hợp nghiên cứu, thuyết trình và thực hành.

Phương pháp giao tiếp (Communicative Approach): Khuyến khích học sinh sử dụng tiếng Anh trong các tình huống thực tế.

Sử dụng học liệu đa phương tiện: Video, phần mềm tương tác, bảng thông minh.

Phương pháp đánh giá liên tục: Kiểm tra nhanh, phản hồi tức thời, đánh giá giữa kỳ và cuối khóa.

3.2 Tiêu chuẩn về giáo viên, giáo trình và minh chứng năng lực

a. Tiêu chuẩn về giáo viên

- Giáo viên nước ngoài phải là công dân của quốc gia sử dụng tiếng Anh là ngôn ngữ chính hoặc có trình độ tiếng Anh tương đương C1 theo Khung tham chiếu châu Âu (CEFR).

- Có chứng chỉ giảng dạy tiếng Anh quốc tế hợp lệ (CELTA, TESOL, TEFL hoặc tương đương).

- Có ít nhất 02 năm kinh nghiệm giảng dạy tiếng Anh, ưu tiên kinh nghiệm tích hợp nội dung môn học Toán và Khoa học.

- Có kỹ năng sư phạm phù hợp với lứa tuổi tiểu học, khả năng quản lý lớp học, tạo động lực học tập cho học sinh.

- Có hồ sơ lý lịch tư pháp rõ ràng, không vi phạm pháp luật, không có tiền án liên quan đến trẻ em.

b. Tiêu chuẩn về giáo trình

- Giáo trình sử dụng phải có bản quyền hoặc được phép sử dụng hợp pháp.

- Nội dung bám sát chuẩn đầu ra đã được Chủ đầu tư phê duyệt.

- Tích hợp nội dung môn Toán và Khoa học với tiếng Anh theo phương pháp CLIL (Content and Language Integrated Learning).

- Có hệ thống bài tập, học liệu số, video, hình ảnh và công cụ hỗ trợ học tập đi kèm.

- Phù hợp với độ tuổi và trình độ tiếng Anh của học sinh tiểu học.

c. Minh chứng năng lực

- Bản sao công chứng hoặc bản scan màu các chứng chỉ, bằng cấp của giáo viên.

- Hồ sơ lý lịch tư pháp hoặc giấy xác nhận không có tiền án, tiền sự (do cơ quan có thẩm quyền cấp).

- Bản mô tả kinh nghiệm giảng dạy của giáo viên (Curriculum Vitae - CV) kèm minh chứng (thư xác nhận, hợp đồng lao động, giấy chứng nhận tham gia giảng dạy).

- Bản sao hoặc đường dẫn tới giáo trình, học liệu dự kiến sử dụng.

- Video hoặc clip minh họa một tiết giảng mẫu do giáo viên thực hiện.

3.3 Cách thức đánh giá, quản lý chất lượng và yêu cầu báo cáo

a. Cách thức đánh giá chất lượng

a.1. Nhà thầu phải bảo đảm việc thực hiện chương trình giảng dạy đúng tiến độ, nội dung và phương pháp đã được Chủ đầu tư phê duyệt trong Kế hoạch giảng dạy chi tiết.

a.2. Chất lượng giảng dạy được đánh giá theo các tiêu chí sau:

Tiến độ triển khai: Số buổi dạy, thời lượng mỗi buổi, chủ đề giảng dạy đúng với Kế hoạch đã phê duyệt.

Chất lượng giảng dạy: Phương pháp sư phạm phù hợp với lứa tuổi tiêu học, khả năng lồng ghép nội dung Toán và Khoa học bằng tiếng Anh; sử dụng tiếng Anh chuẩn xác, rõ ràng.

Kết quả học tập của học sinh: Tỷ lệ học sinh đạt chuẩn đầu ra theo thang đánh giá đã thống nhất tối thiểu ...% tổng số học sinh.

Mức độ hài lòng của phụ huynh và học sinh: Tối thiểu đạt .../5 điểm trong khảo sát đánh giá cuối khóa.

Hồ sơ, tài liệu giảng dạy: Lesson plan, học liệu, bài tập và sản phẩm học sinh đầy đủ, đảm bảo tính liên kết với mục tiêu giảng dạy.

a.3. Việc đánh giá được thực hiện qua:

- Dự giờ định kỳ và đột xuất.
- Kiểm tra giữa kỳ và cuối khóa.
- Phân tích kết quả khảo sát phụ huynh, học sinh.
- Nghiệm thu hồ sơ minh chứng.

b. Quản lý chất lượng

b.1. Trước khi triển khai:

Nhà thầu phải trình Chủ đầu tư phê duyệt giáo trình, kế hoạch giảng dạy, danh sách giáo viên kèm hồ sơ năng lực (CV, bằng cấp, chứng chỉ).

Kiểm tra, bàn giao đầy đủ cơ sở vật chất, thiết bị, dụng cụ hỗ trợ giảng dạy.

b.2. Trong quá trình triển khai:

Nhà thầu phải duy trì việc báo cáo tiến độ định kỳ theo yêu cầu của Chủ đầu tư.

Cho phép tổ giám sát của Chủ đầu tư dự giờ định kỳ hoặc đột xuất.

Kịp thời báo cáo, đề xuất phương án điều chỉnh khi phát sinh vấn đề.

b.3. Kết thúc khóa học:

Tổ chức kiểm tra đầu ra, tổng hợp kết quả, so sánh với mục tiêu.

Lấy ý kiến khảo sát của phụ huynh và học sinh.

Hoàn thiện hồ sơ, báo cáo nghiệm thu.

c. Yêu cầu báo cáo

Loại báo cáo	Thời điểm nộp	Nội dung tối thiểu
Báo cáo khởi động	Trước ngày bắt đầu khóa	Danh sách giáo viên, giáo trình, kế hoạch giảng dạy chi tiết
Báo cáo tiến độ định kỳ	Hàng tháng hoặc theo mốc hợp đồng	Tiến độ thực hiện, số buổi đã dạy, tình hình học sinh, sự cố phát sinh và giải pháp
Báo cáo giữa kỳ	Giữa thời gian khóa học	Kết quả kiểm tra giữa kỳ, đánh giá bước đầu, đề xuất điều chỉnh (nếu có)
Báo cáo kết thúc khóa	Trong vòng 10 ngày sau khi kết thúc khóa	Tổng hợp kết quả học tập, tỷ lệ đạt chuẩn, khảo sát hài lòng, kiến nghị
Báo cáo nghiệm thu	Sau khi Chủ đầu tư chấp thuận kết quả	Hồ sơ bài giảng, học liệu, bảng điểm, sản phẩm học sinh, video/ảnh minh chứng

3.4 Yêu cầu tài liệu minh chứng kèm theo hồ sơ dự thầu

Nhà thầu phải nộp đầy đủ các tài liệu minh chứng dưới đây trong Hồ sơ dự thầu để chứng minh năng lực, kinh nghiệm và khả năng đáp ứng yêu cầu kỹ thuật của gói thầu. Các tài liệu này phải rõ ràng, hợp lệ, còn hiệu lực và được sắp xếp khoa học, có danh mục tài liệu kèm theo.

a. Hồ sơ pháp lý của nhà thầu

Giấy chứng nhận đăng ký kinh doanh.

Giấy phép hoặc văn bản cho phép thực hiện hoạt động đào tạo, giảng dạy tiếng Anh.

Các giấy tờ chứng minh tư cách hợp lệ khác theo quy định của pháp luật và hồ sơ mời thầu.

b. Hồ sơ năng lực và kinh nghiệm

Hồ sơ năng lực tổng quát của đơn vị (Company Profile).

Danh sách các hợp đồng tương tự đã thực hiện trong 03 năm gần đây, kèm bản sao hợp đồng và biên bản nghiệm thu (nếu có).

Danh sách đội ngũ giáo viên tham gia gói thầu, kèm hồ sơ năng lực từng giáo viên (CV, bằng cấp, chứng chỉ, kinh nghiệm).

c. Minh chứng về giáo trình, học liệu

Bản sao giáo trình dự kiến sử dụng hoặc thư xác nhận bản quyền/hợp đồng mua bản quyền.

Danh mục học liệu, tài liệu bổ trợ, công cụ giảng dạy (video, phần mềm, bảng thông minh...).

Mẫu kế hoạch bài dạy (Lesson Plan) minh họa.

d. Minh chứng về chất lượng dịch vụ

Video hoặc clip ghi hình một số tiết giảng mẫu của giáo viên.

Kết quả khảo sát sự hài lòng của học sinh/phụ huynh từ các khóa học trước (nếu có).

Báo cáo đánh giá hoặc giấy chứng nhận chất lượng từ các cơ quan, tổ chức uy tín (nếu có).

e. Các tài liệu khác

Danh mục trang thiết bị, cơ sở vật chất phục vụ giảng dạy.

Các giấy tờ chứng minh tuân thủ quy định về an toàn, phòng cháy chữa cháy (nếu có).

4. Giải pháp và phương pháp luận:

Nhà thầu chuẩn bị đề xuất giải pháp, phương pháp luận tổng quát thực hiện dịch vụ theo các nội dung quy định tại Chương này, gồm các phần như sau:

1. Giải pháp và phương pháp luận;

2. Kế hoạch công tác.

Nhà thầu có thể tham khảo kế hoạch giảng dạy sau:

SYLLABUS

MATH SCIENCE GRADE 1

Course length: 34 weeks

WEEK	PERIOD	SUBJECT	UNIT	CONTENT	OBJECTIVE
1	1+2	MATH	Unit 1 COUNTING TO 4	- Counting numbers 0 – 4 (zero, one, two, three, four) - Words: cat, fish, dog, bird, apple, banana, orange, boy, girl, teacher, finger. - Story: My fingers	Students will be able to: - recognize and say numbers 0-4. - count numbers within 4.
2	3+4	SCIENCE	Unit 1 BODY PARTS	- Words: Body parts: eye, ear, nose, tongue, hand - Story: What's this?	Students will be able to learn the body parts of the 5 senses.

3	5+6	MATH	Unit 2 WE HAVE 4 PENCILS	- Adding numbers within 4 (One plus three equals four) - Words: pencil, book, chair, duck, bag, strawberry, star, tree. - Story: My pencils	Students will be able to: - learn how to say the addition equation. - add numbers within 4.
4	7+8	SCIENCE	Unit 2 FIVE SENSES	- 5 senses: see, hear, smell, taste, touch - Story: My senses - Values: Know my senses	Students will be able to: - learn the 5 senses. - match the body parts with the 5 senses.
5	9+10	MATH	Unit 3 HOW DO WE TAKE AWAY?	- Subtracting numbers within 4 (Four minus one equals three) - Words: flower, watermelon, egg, balloon, carrot. - Story: My bananas	Students will be able to: - learn how to say the subtraction equation. - add numbers within 4.
6	11+12	SCIENCE	Review 1	Revision from Unit 1 and Unit 2	
7	13+14	MATH	Review 1	Revision from Unit 1 to Unit 3	
8	15+16	SCIENCE	Unit 3 SICKNESS	- Words: Sickness: fever, cough, headache, stomachache - Phrases: Should: see a doctor, take medicine, drink more water, rest. - Story: Tim is sick.	Students will be able to: - learn some common sicknesses. - learn what you should do when you get sick.
9	17+18	MATH	Unit 4 COUNTING TO 8	- Counting numbers 5 – 8 (five, six, seven, eight) - Words: teddy bear, rabbit, children, lion, bike, kangaroo, lollipop, pizza. - Story: My crayons	Students will be able to: - recognize and say numbers 5-8. - count numbers within 8.
10	19+20	SCIENCE	Unit 4 STAY HEALTHY	- Phrases: Stay healthy: do exercises, eat healthy, sleep early - Words: Healthy food: protein, vegetables, fruits, grains. - Story: I am healthy	Students will be able to: - learn what you should do to stay healthy. - learn about healthy food. - recognize food in each category.

11	21+22	MATH	Unit 5 HOW MANY PEOPLE ARE THERE?	- Adding numbers within 8 (Two plus four equals six) - Words: bee, mom, dad, chicken, cow - Story: My books	Students will be able to: - learn how to say the addition equation. - add numbers within 8.
12	23+24	SCIENCE	Review 2	Revision from Unit 3 and Unit 4	
13	25+26	MATH	Unit 6 COUNTING THE ANIMALS LEFT	- Subtracting numbers within 8 (Seven minus two equals five) - Words: crocodile, bear, key, cupcake, mouse, turtle, ball. - Story: My balls	Students will be able to: - learn how to say the subtraction equation. - add numbers within 8.
14	27+28	SCIENCE	Unit 5 LIVING AND NON- LIVING THINGS	- Words: Living things and non-living things - Story: A living fish	Students will be able to learn about recognizing living and non-living things.
15	29+30	MATH	Semester 1 Review	Revision from Unit 1 to Unit 6	
16	31+32	SCIENCE	Semester 1 Review	Revision from Unit 1 to Unit 5	
17	33 34	MATH SCIENCE	SEMESTER 1 TEST		
18	35+36	MATH	Unit 7 COUNTING TO 10	- Counting numbers 9, 10 (nine, ten) - Words: table, chair, kite. - Story: My lollipops	Students will be able to: - Recognize and say numbers 9-10. - Count numbers within 10.
19	37+38	SCIENCE	Unit 6 PARTS OF PLANTS	- Words: Parts of plants: roots, flowers, leaves, fruits, stems - Story: My plant	Students will be able to recognize the parts of plants.
20	39+40	MATH	Unit 8 THESE ARE 10 HATS	- Adding numbers within 10 (Six plus four equals ten) - Words: hat, scarf, T-shirt, jacket, skirt, socks, ice-cream. - Story: Let's play	Students will be able to: - Learn how to say the addition equation. - Add numbers within 10.
21	41+42	SCIENCE	Unit 7 WHAT PLANTS NEED	- Words: Plants basic needs: Sun, air, water, soil	Students will be able to know about the basic need of plants to

				- Story: What do plants need?	take care of your plant.
22	43+44	MATH	Unit 9 TAKING AWAY FROM 10	- Subtracting numbers within 10 (Ten minus six equals four) - Words: milk, snack, sandwich, donut, cup. - Story: My apple tree	Students will be able to: - Learn how to say the subtraction equation. - Add numbers within 10.
23	45+46	Creative Showcase Revision from Unit 6 to Unit 7 (Homework)			
24	47+48	MATH	Review 2	Revision from Unit 7 to Unit 9	
25	49+50	SCIENCE	Unit 8 PARTS OF ANIMALS	- Words: Parts of animals: wings, beak, tail, horns - Story: Animals	Students will be able to recognize some the parts of animals.
26	51+52	MATH	Unit 10 GREATER THAN – LESS THAN – EQUAL TO	- Comparing numbers within 10 (Four is greater than three, six is less than ten, three is equal to three.) - Words: cup, plate, bee, flower, rabbit, carrot, ruler. - Story: My ruler	Students will be able to: - Compare number within 10. - Say the comparison equation.
27	53+54	SCIENCE	Unit 9 WHAT ANIMALS NEED	- Words: Animal basic needs: shelter, air, food, water - Story: This is my dog.	Students will be able to - know about the basic need of animals. - take care of your pet.
28	55+56	MATH	Unit 11 WHAT SHAPE IS IT?	- Recognizing shapes: circle, triangle, square. - Words: clock, ruler, window, CD, flag. - Story: Shapes around us.	Students will be able to: - Recognize basic shapes. - Tell the shapes.
29	57+58	SCIENCE	REVIEW 4	Revision from Unit 6 to Unit 7	
30	59+60	MATH	Unit 12 LONGER OR SHORTER	Learning how to measure length (cm) - Words: train, bus, sofa, car, pencil case, eraser, corn, cucumber. - Story: How long is a pencil?	Students will be able to Measure objects using centimeters (cm).

31	61+62	SCIENCE	Unit 10 WEATHER AND CLOTHES	- Words: Weather: rainy, sunny, cold hot, windy, stormy, snowy, cloudy. - Story: It is hot.	Students will be able to - learn about weather. - know what you should wear for the weather.
32	63+64	MATH	Semester 2 Review	Revision from Unit 10 to Unit 12	
33	65+66	SCIENCE	Semester 2 Review	Revision from Unit 10 to Unit 12	
34	67 68	MATH SCIENCE	SEMESTER 2 TEST		

SYLLABUS

MATH SCIENCE GRADE 2

Course length: 34 week

WEEK	PERIOD	SUBJECT	UNIT	CONTENT	OBJECTIVE
1	1+2	MATH	Unit 1 WELCOME BACK	<i>Review Grade 1</i> - Numbers 0 – 10 - Addition within 10 - Subtraction within 10 - Greater than – less than – equal to - Shapes – cm – longer/ shorter	Help students review Math lessons in Grade 1.
2	3+4	SCIENCE	Unit 1 PLANT HABITATS	- Plant habitats: water plants (lotus and water lily), land plants (coconut tree and mango tree) - Story: My garden	To know about types of plant habitats and habitats of some common plants.
3	5+6	MATH	Unit 2 COUNTING TO 15	- Counting numbers 11 – 15 (eleven, twelve, thirteen, fourteen, fifteen) - Words: bird, cat, elephant, duck, dog, kite, car, teddy bear, ball, bee, fish, train. - Story: The number game	Students will be able to: - Recognize numbers from 11 to 15. - Count things/objects within 15. - Be familiar with writing numbers in words up to 15.

4	7+8	SCIENCE	Unit 2 ANIMAL HABITATS	<ul style="list-style-type: none"> - Animal habitats: water animals (goldfish, crocodile, and shark), land animals (giraffe, lion and elephant), air animals (butterfly, parrot and bee) - Story: The animal show 	To know about the types of animal habitats and habitats of some common animals.
5	9+10	MATH	Unit 3 COUNTING TO 20	<ul style="list-style-type: none"> - Counting numbers 16 – 20 (sixteen, seventeen, eighteen, nineteen, twenty) - Words: egg, candy, biscuit, hamburger, ice-cream, cupcake, lollipop, cookie, sandwich, crocodile, tiger, parrot. - Story: Our cookies 	Students will be able to: <ul style="list-style-type: none"> - Recognize numbers from 16 to 20. - Count things/objects within 20. - Be familiar with writing numbers in words up to 20.
6	11+12	SCIENCE	Unit 3 PROTECTI NG HABITATS	<ul style="list-style-type: none"> - Should: plant trees, collect trash - Shouldn't: cut down trees, litter - Story: At the park 	To know how to protect plant habitats and animal habitats.
7	13+14	MATH	Review 1	Revision from Unit 1 to Unit 3	
8	15+16	SCIENCE	Review 1	Revision from Unit 1 to Unit 3	
9	17+18	MATH	Unit 4 BEFORE AND AFTER NUMBERS	<ul style="list-style-type: none"> - Learning the number line and knowing the number that comes before and after. - Words: come before, come after. - Story: The number train 	Students will be able to: <ul style="list-style-type: none"> - Order numbers from 1 to 20. - Know before and after numbers within 20.
10	19+20	SCIENCE	Unit 4 PHYSICAL ACTIVITIE S	<ul style="list-style-type: none"> - Physical activities: run, jump, dance, play soccer - Story: Let's do exercises! 	To know some physical activities.
11	21+22	MATH	Unit 5 ADDITION WITHIN 20	<ul style="list-style-type: none"> - Adding numbers within 20 (Eight plus three equals eleven) - Words: kite, rabbit, carrot, balloon, robot, puppet. - Story: Happy birthday! 	Students will be able to: <ul style="list-style-type: none"> - Know how to add numbers within 20. - Apply addition within 20 in everyday life.

12	23+24	SCIENCE	Unit 5 SKELETAL SYSTEM	<ul style="list-style-type: none"> - Skeletal system: skull, ribs, spine, leg bones, arm bones - Should: sit straight, stand straight - Story: Protect your spine 	<ul style="list-style-type: none"> - To know some parts of skeletal system. - To know how to protect skeletal system.
13	25+26	MATH	Unit 6 SUBTRACT ION WITHIN 20	<ul style="list-style-type: none"> - Subtracting numbers within 20 (Nineteen minus five equals fourteen.) - Words: carrot, banana, coconut, pear, mango, watermelon. - Story: How many candies are left? 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Know how to subtract numbers within 20. - Apply subtraction within 20 in everyday life.
14	27+28	SCIENCE	Unit 6 MUSCULAR SYSTEM	<ul style="list-style-type: none"> - Muscular system: facial muscles, arm muscles, leg muscles - Should: play sports - Shouldn't: eat unhealthy food - Story: Our muscles 	<ul style="list-style-type: none"> - To know some parts of muscular system. - To know how to protect muscular system.
15	29+30	MATH	Review 2	Revision from Unit 4 to Unit 6	
16	31+32	SCIENCE	Review 2	Revision from Unit 4 to Unit 6	
17	33 34	MATH SCIENCE	SEMESTER 1 TEST		
18	35+36	MATH	Unit 7 TELLING THE TIME	<ul style="list-style-type: none"> - Learning how to tell the time Sentences: - What time is it? It's four o'clock. It's a quarter past four. It's half past four. - Words: get up, do exercises, read books, go to bed, have breakfast. - Story: What time is it? 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Know how to tell the time. - Apply telling the time in everyday life.
19	37+38	SCIENCE	Unit 7 RESPIRATORY SYSTEM	<ul style="list-style-type: none"> - Respiratory system: nose, lungs, windpipe, breathe in, breathe out - Should: wear masks - Shouldn't: smoke - Story: Our lungs 	<ul style="list-style-type: none"> - To know some parts of respiratory system. - To know how the lungs work. - To know how to protect respiratory system.

20	39+40	MATH	Unit KILOMETER	<ul style="list-style-type: none"> - Learning how to say the distance between places. - Sentences: How far is it from your house to school? It's about 5 km from my house to school. - Words: Places: house, bus stop, school, playground, café, bookstore, supermarket, toy shop. - Story: How far is it? 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Know what kilometer is (within 20). - Apply kilometer in everyday life.
21	41+42	SCIENCE	Unit 8 URINARY SYSTEM	<ul style="list-style-type: none"> - Urinary system: kidneys, ureters, bladder - Should: drink enough water - Shouldn't: hold my pee - Story: Don't hold your pee! 	<ul style="list-style-type: none"> - To know some parts of urinary system. - To know how to protect urinary system.
22	43+44	MATH	Unit 9 KILOGRAM	<ul style="list-style-type: none"> - Learning how to weigh fruits. - Sentences: How much do the apples weigh? They weigh 3 kg. - Words: kilogram (kg), durian, a bag of rice. - Story: How much do the bananas weigh? 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Know what kilogram is. - Use addition with kilogram (within 20). - Apply kilometer in everyday life.
23	45+46	SCIENCE	Unit 9 PERSON HYGIENE	<ul style="list-style-type: none"> - Adjective: clean, dirty - Person hygiene: wash my hands, brush my teeth, take a shower, tidy my room, make my bed - Story: Guessing game 	<ul style="list-style-type: none"> - To know some adjectives about personal hygiene. - To know some activities to keep personal hygiene.
24	47+48	MATH	Review 3	Revision from unit 7 to Unit 9	
25	49+50	Creative Showcase Revision from unit 7 to Unti 9 (Homework)			

26	51+52	MATH	Unit 10 QUADRILATERAL	<ul style="list-style-type: none"> - Sentences: It's a circle. It has no side. It's a triangle. It has 3 sides. They're quadrilaterals. They have 4 sides. - Story: My little robot. 	Students will be able to: <ul style="list-style-type: none"> - Recognize quadrilateral things around us. - Apply quadrilateral in everyday life.
27	53+54	SCIENCE	Unit 10 SEASONS AND WEATHER	<ul style="list-style-type: none"> - Seasons: spring, summer, fall, winter - Weather: sunny, rainy, hot, cold, cool - Story: Seasons in Vietnam 	<ul style="list-style-type: none"> - To know 4 seasons. - To know how to use weather adjectives to describe the seasons. - To know the seasons in Vietnam.
28	55+56	MATH	Unit 11 MULTIPLES OF 2	<ul style="list-style-type: none"> - Sentences: Two times three equals six. Two times four equals eight. - Words: strawberry, lemon, shoes. - Story: Birds' wings 	Students will be able to: <ul style="list-style-type: none"> - Know to use multiples of 2 (within 20). - Apply multiples of 2 in everyday life.
29	57+58	SCIENCE	Unit 11 CARDINAL DIRECTIONS	<ul style="list-style-type: none"> - Cardinal directions: North, South, East, West - Story: Our town 	<ul style="list-style-type: none"> - To know cardinal directions. - To know how to use cardinals to show directions.
30	59+60	MATH	Unit 12 DIVISION BY 2	<ul style="list-style-type: none"> - Sentences: Ten divided by two equals five. - Words: candy, watermelon, ball, teddy bear, pencil. - Story: Sharing pies 	Students will be able to: <ul style="list-style-type: none"> - Know to use division by 2 (within 20). - Apply division by 2 in everyday life.
31	61+62	SCIENCE	Unit 12 NATURAL DISASTERS	<ul style="list-style-type: none"> - Natural disasters: hurricanes, wildfire, floods, drought - Story: Natural disasters in Vietnam 	<ul style="list-style-type: none"> - To know some types of natural disasters. - To know how to describe the natural disasters. - To know some natural disasters in Vietnam.
32	63+64	MATH	Review 4	Revision from Unit 10 to Unit 12	
33	65+66	SCIENCE	Review 4	Revision from Unit 10 to Unit 12	
34	67 68	MATH SCIENCE	SEMESTER 2 TEST		

SYLLABUS

MATH SCIENCE GRADE 3

Course length: 34 weeks

WEEK	PERIOD	SUBJECT	UNIT	CONTENT	OBJECTIVE
1	1+2	MATH	Unit 1 Counting by tens (10 – 100)	<p>Vocabulary ten, twenty, thirty, forty, fifty, sixty, seventy, eighty, ninety, one hundred</p> <p>Extra words: <i>egg, cupcake, colored pencils, paper cup, pea, chocolate, crayon, ball, skateboard, play football, go fishing</i></p> <p>Review Grammar: There is + singular nouns There are + plural nouns</p> <p>Sentences: 1. How many ... are there? There is ... / There are ... 2. What number is it? It's number ... 3. Can you count by tens from ... to ...? Yes, I can. / No, I can't.</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - How to count by tens (10 - 100) - Recognize, read and write numbers 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 - Understand how to use the plural and singular nouns
2	3+4	SCIENC E	Unit 1 Parts of plants & their functions	<p>Vocabulary leaves, stem, root, water, minerals</p> <p>Sentences Leaves:</p> <ul style="list-style-type: none"> • use sunlight, water, and air to make food for the plant • help the plant breathe. <p>Stem:</p> <ul style="list-style-type: none"> • carries water and minerals from the roots to the leaves. • holds the leaves, flowers and fruits of the plant. <p>Roots:</p> <ul style="list-style-type: none"> • absorb water and minerals from the soil. • hold the plant in the soil. 	

3	5+6	MATH	Unit 2 Hundreds - Thousands	Vocabulary Hundreds: 100, 101,, 900 Thousands: 1 000, 10 000, 100 000 Currency: VND (10,000 - 20,000 - - 100,000) Extra words: <i>hat, school bag, dress, scarf, pen, lollipop, book</i> Sentences: How much is it? It's one thousand dong. It's twenty thousand dong.	Students will be able to: - How to read numbers in the hundreds – thousands - Ask and say prices - Read the value of money to 100 000 dong
4	7+8	SCIENC E	Unit 2 Parts of plants & their functions (cont.)	Vocabulary Flowers, fruit, seeds Sentences Flowers: <ul style="list-style-type: none"> • make fruit and seeds for the plant Fruit: <ul style="list-style-type: none"> • protects the seeds inside • helps the seeds spread Seeds: <ul style="list-style-type: none"> • grow into a young plant • keep nutrients for the young plant 	
5	9+10	MATH	Unit 3 Ascendin g - Descendin g - The biggest - The smallest	Vocabulary the biggest, the smallest, ascending, descending Sentences Which one is the biggest/ smallest number? 18 is the biggest / smallest number. <i>Put numbers in ascending order</i> <i>Put numbers in descending order</i>	Students will be able to: -Understand that ascending is the numbers from smallest to biggest - Understand that descending is the numbers from biggest to smallest - Say the biggest/ smallest numbers

6	11+12	SCIENCE	Unit 3 Uses of plants	<p>Vocabulary Food, wood, cotton, medicines, oxygen</p> <p>Sentences</p> <ul style="list-style-type: none"> • Providing food for us like vegetables and fruits. • Giving us wood to make things like paper, tables or chairs. • Providing cotton to make things like clothes or pillows. • Being medicines like ginger or mints. • Giving us oxygen. Oxygen is in the air we breathe. All living things need it. 	
7	13+14	MATH	Review 1	Revision from Unit 1 to Unit 3	
8	15+16	SCIENCE	Review 1	Revision from Unit 1 to Unit 3	
9	17+18	MATH	Unit 4 Cube - Cuboid	<p>Vocabulary - Cube, cuboid - Cube in real life: dice, box, present (gift), ice, Rubik - Cuboid in real life: brick, board eraser, lunchbox, lego, eraser, book, a bread</p> <p>Sentences 1. What shape is it? It's a 2. A dice is like a cube / A board eraser is like a cuboid.</p>	Students will be able to know and recognize the shapes <i>cube</i> and <i>cuboid</i> in life
10	19+20	SCIENCE	Unit 4 Animal body parts	<p>Vocabulary Feet, legs, wings, fins, walk, fly, swim, hop</p> <p>Sentences:</p> <ul style="list-style-type: none"> • Lions walk on their feet. • Parrots fly with their wings. • Goldfish swim with their fins. • Rabbits hop with their back legs. 	
11	21+22	MATH	Unit 5 Sphere - Cylinder	<p>Vocabulary - sphere, cylinder</p>	Students will be able to know and recognize the shapes

				<p>- Sphere in real life: earth, ball, orange</p> <p>- Cylinder in real life: a soda can, a candle, a cup</p> <p>Sentences</p> <p>1. What shape is it? It's a</p> <p>2. The Earth is like a sphere / A soda can is like a cylinder.</p>	of spheres and cylinders in life
12	23+24	SCIENCE	<p>Unit 5 Animal body parts (cont.)</p>	<p>Vocabulary <i>Mammals, birds, reptiles, fish, fur, feathers, dry scale, wet scales</i></p> <p>Sentences</p> <ul style="list-style-type: none"> ● Bears and cats are mammals. They have fur. ● Ducks and parrots are birds. They have feathers. ● Lizards and snakes are reptiles. They have dry scales. ● Goldfish and carps are fish. They have wet scales. 	
13	25+26	MATH	<p>Unit 6 Fraction</p>	<p>Vocabulary Fraction: one whole (1), one-half (1/2), one-third (1/3), one-fourth (1/4), one-fifth (1/5), one-sixth (1/6)</p> <p>Extra words: A pizza, a watermelon, an orange, a cookie, a pineapple, a cake, (pieces / parts)</p> <p>Sentences Fractions in words One half of a cake One-fourth of a watermelon</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Read the fraction - Know the fractions of things
14	27+28	SCIENCE	<p>Unit 6 Uses of animals</p>	<p>Vocabulary Provide food, give materials, carry</p> <p>Sentences Animals provide food for us.</p> <ul style="list-style-type: none"> ● Pigs, chickens,... give us meat. ● Cows, goats,... give us milk. ● Chickens, ducks,... give use eggs. 	

				<p>Some animals give us materials for making clothes.</p> <ul style="list-style-type: none"> • Sheep give us wool. • Cows, crocodiles, snakes,... give us leather. <p>Many animals carry people and goods.</p> <ul style="list-style-type: none"> • Horses carry people. • Cows carry goods. 	
15	29 + 30	MATH	Review 2	Revision Unit 4 to Unit 6	
16	31+32	SCIENCE	Review 2	Revision Unit 4 to Unit 6	
17	33 34	MATH SCIENCE	SEMESTER 1 TEST		
18	35+36	MATH	Unit 7 Addition and subtraction within 1000	<p>Vocabulary Plus, minus, equals Addition: plus, add, in total, all together Subtraction: minus, left, take away, subtract, give</p> <p>Sentences Two hundred and fifty plus ten equals two hundred and sixty. Three hundred and twenty minus twenty equals three hundred.</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Read and understand the math contents and know when they add or subtract - Add/ subtract numbers within 1000
19	37+38	SCIENCE	Unit 7 Digestive system	<p>Vocabulary mouth, liver, stomach, large intestine, small intestine, wash my hands, eat my meals on time skip breakfast, eat too fast</p> <p>Sentences</p> <ul style="list-style-type: none"> • The digestive system has a mouth, liver, stomach, large intestine, and small intestine. The digestive system changes the food you eat into energy and nutrients. 	

				<ul style="list-style-type: none"> ● I should wash my hands before eating. ● I should eat my meals on time. ● I shouldn't skip breakfast. ● I shouldn't eat too fast. 	
20	39 + 40	MATH	Unit 8 Multiplication tables 3 - 9	<p>Vocabulary times, multiply, equals</p> <p>Sentences Four times four equals sixteen.</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Understand multiplication and its usage of it. - Understand the relationship between multiplication and addition
21	41+42	SCIENCE	Unit 8 Circulatory system	<p>Vocabulary <i>heart, blood, blood vessels, have a healthy diet, do more outdoor activities, drink too much coke, eat too much salt</i></p> <p>Sentences</p> <ul style="list-style-type: none"> ● <i>The circulatory system has the heart, blood and blood vessels. Blood vessels send oxygen and nutrients to different body parts and take away wastes.</i> ● <i>I should have a healthy diet</i> ● <i>I should do more outside activities.</i> ● <i>I shouldn't drink too much coke.</i> ● <i>I shouldn't eat too much salt or sugar.</i> 	
22	43+44	MATH	Unit 9 Divisions tables 3 - 9	<p>Vocabulary divided by, equals</p> <p>Extra words: share, divide, put..into, equally, get, pig/ cow/ rabbit/ chicken cages</p> <p>Sentences</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Understand divisions in real situations - Know divisions 3-9

				Thirty divided by five equals six.	- How to solve the division problems -Understand the relationship between division and multiplication
23	45+46	SCIENCE	Unit 9 Nervous system	<p>Vocabulary skull, brain, spinal cord, spine, nerves, get enough sleep, get enough rest, go to bed late, avoid caffeine</p> <p>Sentences</p> <ul style="list-style-type: none"> • The nervous system has the brain, spinal cord, and nerves. The skull protects the brain, and the spine protects the spinal cord. The nerves send and receive signals and messages through your body to tell it what to do. • I should get enough sleep. • I should get enough rest. • I shouldn't go to bed late. • I should avoid caffeine. 	
24	48+49	MATH	Review 3	Revision Unit 7 to Unit 9	
25	49+50	<p align="center">Creative Showcase Revision Unit 7 to Unit 9 (Homework)</p>			
26	51+52	MATH	Unit 10 Gram (g) - Kilogram (kg)	<p>Vocabulary Kilograms to grams 1 kilogram = 1000 grams (1 kg = 1000 g) One kilogram is equal to 1000 grams. Grams to kilograms 1000 grams = 1 kilogram (1000 g = 1 kg) One thousand grams are equal to one kilogram.</p> <p>Extra words: carrot, apple, pumpkin, corn,</p>	Students will be able to: - Know how to read the weight of things - Exchange kilograms and grams

				tomato, potato, grape, durian, orange, banana, rice, mushroom, chicken Sentences How much does the apple weigh? It's 300 grams. How much does the pumpkin weigh? It's 1000 grams or It's 1 kg.	
27	53+54	SCIENCE	Unit 10 The Earth	Vocabulary North Pole, South Pole, Equator, polar zones, temperate zones, tropical zones Sentences <ul style="list-style-type: none"> ● The Earth has three main climate zones: polar zones, temperate zones, and tropical zones. ● In the polar zones, they are almost always covered with snow. ● Temperate zones have seasons. The weather changes a lot from season to season. ● The tropical zones are the nearest to the equator. So, they are hot and humid all year long. 	
28	55+56	MATH	Unit 11 Milliliter (ml) - Liter (l)	Vocabulary 1 liter = 1l One liter is equal to one thousand milliliters. Extra words: lemon juice, watermelon juice, apple juice, banana milk, strawberry juice, kiwi juice, yogurt, milk, water, fish sauce, tomato ketchup, honey, soda, Sentences How much banana milk is in the box?	Students will be able to: - Measure how much liter/ milliliter of things - Know how to convert liter and milliliter

				It's 1 liter or 1000 milliliters.	
29	57+58	SCIENCE	Unit 11 The Earth in the Solar System	<p>Solar system, Earth, Planets, sun's rays, orbit, sun</p> <p>Sentences</p> <ul style="list-style-type: none"> • There are eight planets in the Solar system. The Earth is the third planet from the Sun. • Sun's rays come to the Earth. Some parts are day and some parts are night. <p>The Earth takes 365 days to orbit the sun.</p>	
30	59+60	MATH	Unit 12 Area of a rectangle and a square	<p>Vocabulary Area, side, width, length, cm² (square centimeters)</p> <p>Extra words: notebook, board eraser, calculator, dice's surface, envelope, tray, pencil case, wallet</p> <p>Sentences What is the area of a ...? It's square centimeters.</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Know the area of a rectangle and a square - Know the area of real objects
31	61+62	SCIENCE	Unit 12 The Earth surface	<p>mountain, hill, river, lake, ocean, delta</p> <p>Sentences</p> <ul style="list-style-type: none"> • A mountain is higher than a hill. • A river is longer than a lake. • A lake is smaller than an ocean. • A delta is lower than a hill or a mountain. 	
32	63+64	MATH	Review 4	Revision Unit 10 to Unit 12	
33	65+66	SCIENCE	Review 4	Revision Unit 10 to Unit 12	
34	67 68	MATH SCIENCE	SEMESTER 2 TEST		

SYLLABUS

MATH SCIENCE GRADE 4

Course length: 34 weeks

WEEK	PERIOD	SUBJECT	UNIT	CONTENT	OBJECTIVE
1	1+2	MATH	UNIT 1 MILLIONS	<p>Words: <i>Numbers:</i> millions <i>Extra words:</i> phone, watch, tablet, motorbike, car <i>Names:</i> Can Tho, Da Nang, Hue, Nile River, Mekong River, the USA, Japan, Germany, the UK Sentences:</p> <ul style="list-style-type: none"> ● How much is/ are ...? It's/ They're ... ● How many people are there in ...? There are over... ● How long is the ...? It's nearly ... 	At the end of the Unit, students will be able to: - read and write numbers up to millions. - ask and answer the questions about the price, length, and population by using numbers within millions.
2	3+4	SCIENCE	UNIT 1 WATER	<p>Vocabulary liquid, gas, solid, water vapor, ice Knowledge - Three states of water - The water cycle</p>	Students will be able to: - expand vocabulary about water - recognize three states of water - know how water changes in the water cycle
3	5+6	MATH	UNIT 2 UNITS OF LENGTH (KILOMETER, METER, DECIMETER, CENTIMETER, MILLIMETER)	<p>Words: <i>Units of length:</i> kilometer, meter, decimeter, centimeter, millimeter Convert: 1km = 1000m 1m = 10 dm = 100 cm = 1,000 mm Extra words: hospital, supermarket, tennis field, measure, stage. Sentences: How tall is it in meters/decimeters/centimeters/millimeters? It's ... meters/decimeters/centimeters/ millimeters tall.</p>	At the end of the Unit, students will be able to: - know the relationship and do conversion between kilometer, meter, decimeter, centimeter, and millimeter. - use a kilometer, meter, decimeter, centimeter, and millimeter to talk about the size of an object.

				<ul style="list-style-type: none"> • <i>How long</i> is it in meters/ decimeters/ centimeters/ millimeters? <p>It's ... meters/decimeters/ centimeters/millimeters wide.</p>	
4	7+8	SCIENCE	UNIT 2 AIR	<p>Vocabulary</p> <ul style="list-style-type: none"> - nitrogen, oxygen, carbon dioxide, spin, flutter <p>Knowledge</p> <ul style="list-style-type: none"> - Different gases of air - How wind makes things move 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - expand vocabulary about different gases of air - know how the wind makes things move - recognize things that can move in the wind
5	9+10	MATH	UNIT 3 UNITS OF WEIGHT (TONNES, QUINTALS, KILOGRAMS)	<p>Words:</p> <p><i>Units of weight:</i> tonnes, quintals, kilograms Convert: 1 tonne = 10 quintals = 1,000 kilograms</p> <p><i>Extra words:</i> + Animals (hippo, horse, cow, blue whale, African elephant, white rhino, giraffe, polar bear, ostrich, crocodile, buffalo) + Food (rice, salt, sugar, onion, yam, coffee, tomato)</p> <p>Sentences:</p> <ul style="list-style-type: none"> • How much does it weigh in tonnes/ quintals/ kilograms? <p>It weighs ... tonnes/quintals/ kilograms</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - know the relationship and do conversion between tonnes, quintals, and kilograms. - use tonnes, quintals, and kilograms to talk about the weight of animals and food.
6	11+12	SCIENCE	UNIT 3 PROTECT THE AIR AND WATER ENVIRONMENT	<p>Vocabulary</p> <ul style="list-style-type: none"> - water pollution, garbage, wastewater, air pollution, smoke from vehicles, smoke from factories, smoke from fires <p>Knowledge</p> <ul style="list-style-type: none"> - Definition of water pollution and air pollution 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - expand vocabulary about water pollution and air pollution - know the causes of water pollution and air pollution - learn how to protect the water and air environment

				- How to protect the water and air pollution	
7	13+14	MATH	REVIEW 1	Revision from Unit 1 to Unit 3	
8	15+16	SCIENCE	REVIEW 1	Revision from Unit 1 to Unit 3	
9	17+18	MATH	UNIT 4 ADDING AND SUBTRACTING WITH MULTI-DIGIT NUMBERS	<p>Words: Numbers: numbers within thousands Adding and subtracting with multi-digit numbers: plus, minus, equals Names: Ha Noi, Ho Chi Minh City Extra words: area, heavier, elephant, giraffe, ruler, pencil, eraser, backpack, bridge. Sentences:</p> <ul style="list-style-type: none"> • ... plus ... equals ... (Ex: Three thousand three hundred and sixty plus two thousand and ninety-five equals five thousand four hundred fifty-five.) • ... minus ... equals ... (Ex: Three thousand two hundred seventy-nine minus one thousand and eighty-six equals two thousand one hundred ninety-three.) • What is the total of ... and ...? • How much heavier is ... than ...? 	At the end of the Unit, students will be able to: - say a fact of addition and subtraction of multi-digit numbers - ask and answer questions of real-life context related to adding and subtracting with multi-digit numbers
10	19+20	SCIENCE	UNIT 4 LIGHT ENERGY	<p>Vocabulary the Sun, fire, torch, candle, electricity, flashlight, LED lights, bulb, light up, decorate, survive Knowledge - Definition of light energy - Characteristics of light energy - Sources of light energy - Uses of light energy in daily life</p>	Students will be able to: - expand vocabulary about light energy - know what light energy is and its characteristics - recognize sources of light energy - talk and write about the uses of light energy in daily life

11	21+22	MATH	UNIT 5 MULTIPLYING 2-DIGIT NUMBERS	<p>Words: <i>Multiplying 2-digit numbers:</i> times, multiple, equal <i>Extra words:</i> bed, tray, cookie, basketball, letter, pen pal, per day/month Sentences:</p> <ul style="list-style-type: none"> • ... times ... equals ... <i>Ex: Twenty times fourteen equals two hundred eighty.</i> • How many...? 	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - say a fact of a division of 2-digit numbers - ask and answer questions of real-life context related to dividing 2-digit numbers
12	23+24	SCIENCE	UNIT 5 SOUND ENERGY	<p>Vocabulary vibrate, loud sound, soft sound, instruments, speakers, bells, communicate, draw attention, receive information, make music</p> <p>Knowledge</p> <ul style="list-style-type: none"> - Definition of sound energy - Characteristics of sound energy - Sources of sound energy - Uses of sound energy in daily life 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - expand vocabulary about sound energy - know what sound energy is and its characteristics - recognize sources of sound energy - talk and write about the uses of sound energy in daily life
13	25+26	MATH	UNIT 6 DIVIDING 2-DIGIT NUMBERS	<p>Words: <i>Dividing 2-digit numbers:</i> divided by, equal <i>Extra words:</i> farmer, basket, seed, bed, distance, hometown Sentences:</p> <ul style="list-style-type: none"> • ... divided by ... equals ... <i>Ex: Seventy-five divided by twenty-five equals three.</i> • How many...? 	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - say a fact of a division of 2-digit numbers - ask and answer questions of real-life context related to dividing 2-digit numbers
14	27+28	SCIENCE	UNIT 6 HEAT ENERGY	<p>Vocabulary the Sun, fire, campfire, fireplace, electronic devices, stove, iron, hairdryer, cook food, warm bodies or houses, iron clothes, dry things</p> <p>Knowledge</p> <ul style="list-style-type: none"> - Definition of heat energy - Characteristics of heat energy 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - expand vocabulary about heat energy - know what heat energy is and its characteristics - recognize sources of heat energy - talk and write about

				- Sources of heat energy - Uses of sound energy in daily life	the uses of heat energy in daily life
15	29 + 30	MATH	REVIEW 2	Revision Unit 4 to Unit 6	
16	31+32	SCIENCE	REVIEW 2	Revision Unit 4 to Unit 6	
17	33 34	MATH SCIENCE	SEMESTER 1 TEST		
18	35+36	MATH	UNIT 7 ANGLES	<p>Words: <i>Angles:</i> acute, obtuse, right, straight, degree <i>Extra words:</i> form, fan, scissors, hour hand, minute hand Sentences:</p> <ul style="list-style-type: none"> • What is this angle? It's a/an ... angle. A/An ... forms a/an ... angle. <p><i>Ex: A book forms an acute angle.</i></p>	At the end of the Unit, students will be able to: - recognize 4 angles and the differences between them - how to form an angle in real life
19	37+38	SCIENCE	UNIT 7 PLANTS	<p>Vocabulary oxygen, carbon dioxide, sunlight, absorb Knowledge - Needs of plants - How plants make their own food - Why plants are important</p>	Students will be able to: - know the needs of plants to take care of them - know how plants make their own food - know the importance of plants
20	39 + 40	MATH	UNIT 8 PARALLELOGRAM	<p>Words: <i>Parallelogram:</i> flat, side, angle, opposite, parallel, equal, area, height, base <i>Extra words:</i> roof, chocolate bar, envelope, window, tile Sentences:</p> <ul style="list-style-type: none"> • A parallelogram is a flat shape with four sides. • Opposite sides are parallel and equal. 	At the end of the Unit, students will be able to: - recognize a parallelogram shape - know some objects with parallelogram shapes in real life - measure an area of a parallelogram

				<ul style="list-style-type: none"> • Opposite angles are equal. ... is in the shape of a parallelogram. <p><i>Ex: The house's roof is in a parallelogram shape.</i></p>	
21	41+42	SCIENCE	UNIT 8 ANIMALS	<p>Vocabulary habitat, shelter, waste, carnivores, herbivores, omnivores</p> <p>Knowledge - Needs of animals - Three types of animals based on their eating habits</p>	Students will be able to: - know the needs of animals to take care of them - recognize different types of animals
22	43+44	MATH	UNIT 9 UNITS OF AREA (M ² , DM ² , CM ² , MM ²)	<p>Words: <i>Units of area:</i> square meter, square decimeter, square centimeter, square millimeter <i>Extra words:</i> pool, Rubik, bedroom, classroom, playground, amusement park</p> <p>Sentences:</p> <ul style="list-style-type: none"> • What is the area of ... in ...? The area of ... is ... <p><i>Ex: What is the area of the pool in m²?</i></p> <ul style="list-style-type: none"> • The area of the pool is 50m²) 	At the end of the Unit, students will be able to: - read 4 units of area - convert 4 units of area (m ² - dm ² - cm ² - mm ²) - estimate a small area
23	45+46	SCIENCE	UNIT 9 FUNGI	<p>Vocabulary fungi, mushrooms, mold, yeast</p> <p>Knowledge - Types of common fungi around us - Good side and bad side of fungi</p>	Students will be able to: - recognize different types of common fungi around them - know the uses of different types of common fungi - know what they should or shouldn't do with fungi
24	47+48	<p>Creative Showcase Revision Unit 7 to Unit 9 (Homework)</p>			
25	49+50	MATH	REVIEW 3	Revision Unit 7 to Unit 9	

26	51+52	MATH	UNIT 10 FRACTIONS	<p>Words: <i>Fractions:</i> one-fourth, two-fifths, five-eighths, three-fourths <i>Extra words:</i> chocolate, ice tray, biscuit, cupcake, cherry, coconut, strawberry, pineapple, mango, watermelon juice, carrot juice, noodles, soccer, swimming, math</p> <p>Sentences:</p> <ul style="list-style-type: none"> • What fraction of the ... did he/she eat? <p>He/ She ate ... of the ...</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - read and write fractional parts in word and fraction forms - simplify fractions - use fractions to identify parts of things
27	53+54	SCIENCE	UNIT 10 FOOD CHAINS	<p>Vocabulary producer, consumer</p> <p>Knowledge</p> <ul style="list-style-type: none"> - Definition of food chains - Producers and consumers in food chains 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - learn vocabulary about food chains - know the relationship between living things in food chains - recognize producers and consumers in food chains - understand how each living thing gets its food
28	55+56	MATH	UNIT 11 ADDING FRACTIONS	<p>Words: surfing, collecting shells, swimming, flying kites, building sandcastles</p> <p>Sentences:</p> <ul style="list-style-type: none"> • How much did they eat? They ate ... • How much ... did they have left? He had ... left. • How far ...? <p>How much farther ...?</p>	<p>At the end of the Unit, students will be able to understand what it takes to add fractions with unlike denominator</p>

29	57+58	SCIENCE	UNIT 11 HUMAN NUTRITION	<p>Vocabulary protein food, dairy food, fruit, grain, vegetable, healthy diet</p> <p>Knowledge - Numbers of the major group of food - Benefits of each group of food - Importance of having a healthy diet</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - expand vocabulary about human nutrition - talk and write about the numbers of major groups of food and their benefits - recognize the importance of having a healthy diet and apply it in real life
30	59+60	MATH	UNIT 12 SUBTRACTING FRACTIONS	<p>Words: surfing, collecting shells, swimming, flying kites, building sandcastles</p> <p>Sentences:</p> <ul style="list-style-type: none"> • How much did they eat? They ate ... • How much ... did they have left? He had ... left. • How far ...? <p>How much farther ...?</p>	<p>At the end of the Unit, students will be able to understand what it takes to subtract fractions with unlike denominator</p>
31	61+62	SCIENCE	UNIT 12 PREVENT FOOD POISONING	<p>Vocabulary food poisoning, raw food, flies on food, food with mold</p> <p>Knowledge - Definition of food poisoning - Causes of food poisoning - How to prevent food poisoning</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> - know what food poisoning is - learn some actions that cause food poisoning - learn how to prevent food poisoning
32	63+64	MATH	REVIEW 4	Revision Unit 10 to Unit 12	
33	65+66	SCIENCE	REVIEW 4	Revision Unit 10 to Unit 12	
34	67 68	MATH SCIENCE	SEMESTER 2 TEST		

SYLLABUS

MATH SCIENCE GRADE 5

WEEK	PERIOD	SUBJECT	UNIT	CONTENT	OBJECTIVE
1	1+2	MATH	UNIT 1 UNITS OF AREA (HECTARE , KM2, M2)	Words: hectare, square kilometer, square kilometer 1ha = 10 000m ² , 1km ² = 1 000000m ² 1km ² = 100ha Sentences: What is the area of the ... in hectares/ square kilometer/ square meter? The area of the ... is ...	At the end of the Unit, students will be able to: - convert units of area (hectares, square meter and square kilometer) - read units of the area in full sentence - solve problems related to converting units of area
2	3+4	SCIENCE	UNIT 1 SOILS	Words: soil, water, minerals, gases, living organism, dead organism, provide places, give necessary nutrients, hold the roots, store water Sentences: Soil includes ... Soil provides/ gives/ holds/ stores ...	At the end of the Unit, students will be able to: - learn words and phrases related to soil - understand the soil composition - know the importance of soil to plants
3	5+6	MATH	UNIT 2 DECIMALS	Words: decimals, point, smaller, greater, the heaviest, the lightest Sentences: zero point zero six Nineteen point nine is smaller than twenty point two. Thirty-eight point zero one is greater than thirty-seven point zero two. What is the lightest animal? The ... is the lightest animal. What is the heaviest animal? The ... is the heaviest animal.	At the end of the Unit, students will be able to: - read decimals - compare two decimals - arrange decimals in descending order and ascending order
4	7+8	SCIENCE	UNIT 2 MIXTURES & SOLUTIONS	Words: substances, mixture, dissolve, solution, separate Sentences: When we mix ..., we have a mixture. When we mix ..., we have a solution.	At the end of the unit, students will be able to: - understand the definitions of mixtures and solutions - identify the differences between mixtures and solutions - know how to mix different substances to create mixtures or solutions.

5	9+10	MATH	UNIT 3 ADD AND SUBTRACT DECIMALS	<p>Words: plus, minus, equals, left, in total, shopping mall, movie theater, lemonade</p> <p>Sentences: How far is it from ... to ...? How much ... is left? How much do the ... weigh in total?</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - solve problems related to adding and subtracting decimals - practice adding and subtracting decimals in a variety of contexts.
6	11+12	SCIENCE	UNIT 3 STATES OF MATTER	<p>Words: solid, liquid, gas, freezing, melting, boiling, chemical change</p> <p>Sentences: ... is a solid/ liquid/ gas. When we melt/ boil/ freeze ..., it turns into a ...</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - learn and remember words, phrases and sentence structures related to three states of matter - distinguish the three states of matter (solid, liquid, gas) with things in daily life - Understand how matter changes states through physical and chemical changes.
7	13+14	MATH	REVIEW 1	Revision from Unit 1 to Unit 3	
8	15+16	SCIENCE	REVIEW 1	Revision from Unit 1 to Unit 3	
9	17+18	MATH	UNIT 4 MULTIPLYING DECIMALS BY WHOLE NUMBERS	<p>Math words: weigh, multiply, decimal, decimal point, tonne, unital, kilogram, totally</p> <p>Extra words: cook, rice, paper bag, a bag of peanuts, a bag of coffee, a can of vegetable soup, a carton of coconut milk/ coconut juice, a blue whale, tongue, thick, brick, drink water, watermelon, loaf of bread - loaves of bread, beef, go cycling, cooking oil, sugar, red beans, cabbage</p> <p>Sentences: How many kilograms/ liters of do/ does?</p>	<p>At the end of the unit, students will be able to:</p> <ul style="list-style-type: none"> - multiply decimals by whole numbers - learn how to quickly multiply a decimal by 10, 100, 1 000 - practice multiplying decimals in a variety of contexts. - apply number sense to correctly place the decimal point in a decimal multiplication

				How much do they weigh in kilograms/ quintals/ tonnes? - They weigh	
10	19+20	SCIENCE	UNIT 4 ELECTRICITY	<p>Words:</p> <ul style="list-style-type: none"> - Conductor: iron, silver, copper, gold - Insulator: plastic, paper, rubber, wood, glass - Electrical safety: Don't put fingers into sockets, don't use electronic devices near water, don't use broken electronic devices, don't touch electrical wires with wet hands. <p>Sentences:</p> <p>It's a wooden table. It's a conductor. Don't ...</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - learn and remember words, phrases and sentence structures related to electricity - differentiate conductors and insulators and apply them in daily life - understand the importance of electrical safety and how to keep safe from electricity
11	21+22	MATH	UNIT 5 DIVIDING DECIMALS BY A WHOLE NUMBER	<p>Math words: share equally, pour into, cut into, divided by, average score</p> <p>Extra words: seller, fish sauce, lettuce, rope, meat, lemonade, snake, eel, theme park, do homework, learn English, cycle, read books</p> <p>Sentences:</p> <p>How much lettuce is there in each basket? How many of?</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - demonstrate how to divide a decimal by a whole number - understand the rule of dividing decimals by 10, 100, and 1 000 - read and solve dividing word problems
12	23+24	SCIENCE	UNIT 5 USES OF FOSSIL FUELS	<p>Words:</p> <ul style="list-style-type: none"> - Fossil fuels: coal, oil, natural gas - Uses of fossil fuel: cook, heat houses, produce electricity, power transportation <p>Sentences:</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - Know what fossil fuels are - Know the uses of fossil fuels - know some actions to save fossil fuels

				Fossil fuels include oil, coal, and natural gas. People use fossil fuels to... To save fossil fuels, we should...	
13	25+26	MATH	UNIT 6 AREA OF A TRIANGLE AND A TRAPEZOID	Math words: triangle, trapezoid, base, height, perpendicular, longer base, shorter base Extra words: host, camping, tent, lamp, bookshelf, cookie, flag, carpet, ladder, ship. Sentences: What is the area of ...? The area of ... is ...	At the end of the Unit, students will be able to: - Know the formulas for calculating the area of a triangle and a trapezoid - Apply the formulas to solve some math problems about the area of a triangle and a trapezoid
14	27+28	SCIENCE	UNIT 6 SOLAR, WIND AND HYDRO ENERGY	Words: solar energy, solar panels, wind energy, wind turbines, hydro energy, dams Sentences: We use solar energy for ... We use wind energy for ... We use hydro energy for ...	At the end of the unit, students will be able to: - understand different types of clean energy: solar energy, wind energy and hydro energy - know about the sources, uses, good sides and bad sides of these forms of energy
15	29 + 30	MATH	REVIEW 2	Revision from Unit 4 to Unit 6	
16	31+32	SCIENCE	REVIEW 2	Revision from Unit 4 to Unit 6	
17	33 34	MATH SCIENCE	SEMESTER 1 TEST		
18	35+36	MATH	UNIT 7 CIRCUMFERENCE AND AREA OF A CIRCLE	Math words: radius, diameter, circumference, area, the length of, multiply / time, in the shape of, square centimeter (cm ²) Circumference = diameter x 3.14 or Circumference = 2 x radius x 3.14 Area = radius x radius x 3.14 Extra words: mirror, plate, pizza, lucky wheel, CD, lollipop, compass, clock, cookie Sentences: What's the circumference of ...?	At the end of the Unit, students will be able to: - identify the diameter and radius of a circle - Understand and know the formula for calculating the circumference and area of a circle - Apply circumference/area concepts and

				<p>What's the area of ...? The radius/ diameter is ...cm.</p>	<p>formulas to solve real-world problems.</p>
19	37+38	SCIENCE	<p>UNIT 7 REPRODUCTION IN FLOWERING PLANTS</p>	<p>Words: pollen, stamen, anther, filament, pistil, stigma, style, ovary Sentences: Some flowers consist of only stamens or pistils. Some flowers consist of both stamens and pistils.</p>	<p>At the end of the unit, students will be able to:</p> <ul style="list-style-type: none"> - know the reproductive parts of a flower - know the differences in reproductive organs of some flowers - understand the definition of pollination and some methods of pollination
20	39 + 40	MATH	<p>UNIT 8 PERCENTAGES</p>	<p>Math words: percent, percentage Extra words: rotten, toys, teddy bear, frog, lake, chocolate bar, wear glasses, collect stamps, international stamps, mango, orange, grape, cherry, strawberry, reading books, watching TV, listening to music, playing sports, and spending time with family. Sentences: - 20 candies out of 100 candies are green - What percentage of ...? - The percentage of ...</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - Understand the concept of percentages - Know how to calculate the percentage ratio of two numbers - Solve word problems involving percentages in various contexts
21	41+42	SCIENCE	<p>UNIT 8 ANIMAL LIFE CYCLES</p>	<p>Words: lay eggs, give birth, hatch, larva, pupa, covering, embryo Sentences: Chickens lay eggs while cats give birth to their babies.</p>	<p>At the end of the unit, students will be able to:</p> <ul style="list-style-type: none"> - recognize the animals that lay eggs and the animals that give birth - understand the different stages of animal life cycles

22	43+44	MATH	UNIT 9 UNITS OF VOLUME (m ³ , dm ³ , cm ³)	<p>Math words: volume, cubic meter (m³), cubic decimeter (dm³), cubic centimeter (cm³), liter, equal to</p> <p>Extra words: water tank, fruit basket, bucket, orange juice, lunchbox, cabinet, aquarium, vase, green tea set,</p> <p>Sentences:</p> <p>- What is the volume of the water tank both in cubic meters and cubic decimeters?</p> <p>- It's 2.3 cubic meters or 2 300 cubic decimeters.</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - Understand and convert between different units of volume - Apply their understanding of volume conversions to solve real-world problems
23	45+46	SCIENCE	UNIT 9 BACTERIA	<p>Words: bacteria, microscope, fermented food, pickle, soy sauce, digest, fight against, make food go bad</p> <p>Sentences:</p> <p>Bacteria help us...</p> <p>Bacteria cause...</p> <p>To prevent harmful bacteria, we should...</p>	<p>At the end of the unit, students will be able to:</p> <ul style="list-style-type: none"> - Know about bacteria - Know the good sides and bad sides of bacteria - Know how to prevent harmful bacteria
24	47+48	MATH	REVIEW 3	Revision from Unit 7 to Unit 9	
25	49+50	SCIENCE	REVIEW 3	Revision from Unit 7 to Unit 9	
26	51+52	MATH	UNIT 10 VOLUME OF A CUBOID AND A CUBE	<p>Math words: volume, cuboid, cube, length, width, height, side</p> <p>Extra words: container, tissue box, brick, toy box, cage, dice, candle holder, shoebox, planter, sandbox, gift box</p> <p>Sentences:</p> <p>What is the volume of the cuboid container?</p> <p>The volume of the cuboid container is 36 cubic meters.</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - Know the formulas for calculating the volume of a cube and a cuboid - Apply the formulas to calculate the volume of various cuboid and cube-shaped objects using the given dimensions

27	53+54	SCIENCE	<p align="center">UNIT 10 HUMAN DEVELOP MENT STAGES</p>	<p>Words: childhood, adolescence, adulthood, elderly</p> <p>Sentences: During this stage, people...</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - Know the different stages of human development - Know the characteristics of people in each stages of development
28	55+56	MATH	<p align="center">UNIT 11 UNITS OF TIME</p>	<p>Math words: 1 week = 7 days, 1 day = 24 hours, 1 hour = 60 minutes, 1 minute = 60 seconds, 1 year = 12 months, 1 decade = 10 years, 1 century = 100 years</p> <p>Extra words: play the piano, build the bridge, travel in the UK, do the test</p> <p>Sentences:</p> <p>One day is equal to twenty-four hours.</p> <p>How many years are there in one decade? - There are ten years in one decade.</p> <p>How many minutes did Michell spend reading books this morning? - She spent ____ minutes reading books this morning.</p> <p>How long did it take Henry to do homework yesterday? - It took him ____ hours to do homework yesterday.</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - understand the relationship between units of time and know how to convert between them - Solve real-life problems involving conversion - Use sentences to ask and answer about the units of time
29	57+58	SCIENCE	<p align="center">UNIT 11 PUBERTY</p>	<p>Words: puberty, have acne, have period, change moods, have body odor, have deeper voice</p> <p>Sentences:</p> <p>During puberty, teenagers go through big changes like <u>having acne</u>.</p> <p>During puberty, teenagers should <u>have a balanced diet</u>.</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - Know what puberty is - Know how teenager changes during puberty - Know what teenager should do during the puberty

30	59+60	MATH	<p align="center">UNIT 12 VELOCITY - DISTANCE - TIME</p>	<p>Math words: velocity, distance, time, kilometers per hour (km/h) Extra words: truck, plane, train, motorbike, bike, pigeon, traffic sign, traffic lane, speed limit</p> <p>Sentences: What was the velocity of ...? It waskm/h How far did he/she/ it travel to? - He / She / It traveled ... km to How long did it take him/her/they to ...? - It took hours (h) to ...</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - Understand the relationships between instantaneous velocity, distance, and time - Calculate velocity given initial position, initial time, final position, and final time - Know the speed limit of a traffic sign
31	61+62	SCIENCE	<p align="center">UNIT 12 ENVIRONMENT</p>	<p>Words:</p> <ul style="list-style-type: none"> - Roles of the environment: provide places to stay, give us resources, provide fossil fuels, help control the weather - Positive actions: plant trees, reduce, reuse, recycle, use clean energy, collect garbage - Negative actions: cut too many trees, burn fossil fuels, throw garbage into the river, hunt animals <p>Sentences: The environment provides/ gives/ helps ... We should/ shouldn't ...</p>	<p>At the end of the Unit, students will be able to:</p> <ul style="list-style-type: none"> - learn and remember words, phrases and sentence structures related to the environment - understand the roles of the environment - Recognise positive and negative impacts of human activities on the environment and identify ways to protect the environment
32	63+64	MATH	REVIEW 4	Revision from Unit 10 to Unit 12	
33	65+66	SCIENCE	REVIEW 4	Revision from Unit 10 to Unit 12	
34	67 68	MATH SCIENCE	SEMESTER 2 TEST		

5. Quy định về kiểm tra, nghiệm thu sản phẩm:

Mục này quy định về quy trình kiểm tra, nghiệm thu sản phẩm, trình tự giao nộp sản phẩm (nếu có)... để phục vụ công tác thanh, quyết toán hợp đồng.

