

FUN EXPERIENCE SCIENCE PROGRAM TO LEARN IN ENGLISH



영어로 배우는
즐거운 체험과학

FLYING APPLE

V 2.1



온라인 멀티미디어



BIGBOX

New플라잉애플을 하면 '웅진빅박스'가 무료!

www.flyingapple.co.kr

What is



?

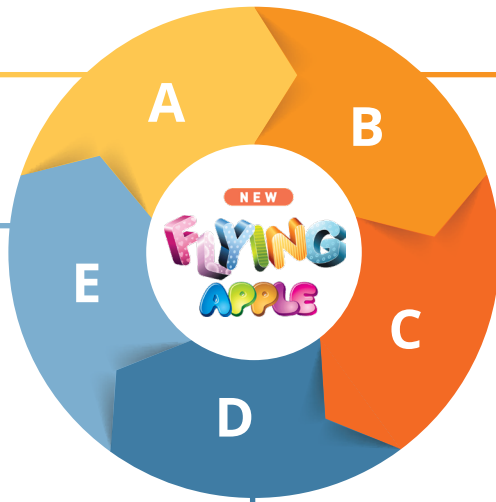
A 교재



B 실험도구 (실험교구)



E 체험동식물



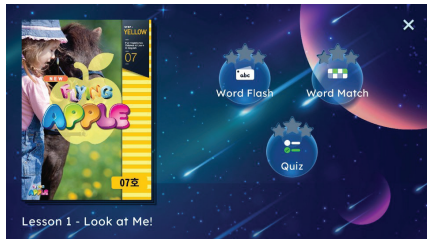
C 비디오클립



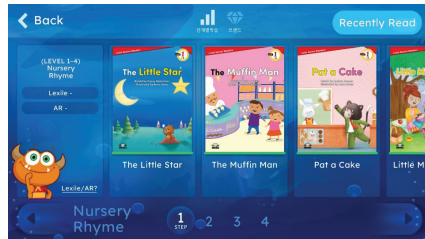
D 온라인 멀티미디어



BIGBOX



온라인 학습 액티비티



영어 도서관

NEW
**FLYING
 APPLE**
 Solution

1

**Life Science
 지원수업**

실제 동식물을 개인별
 제공받아 생생한 체험식
 Life Science 수업

2

**비디오클립
 지원수업**

어려운 과학원리를 쉽게
 설명할 수 있는
 실험, 원리 동영상



영어와 교과지식을 한번에

영어능력 향상
 (Reading comprehension + vocabulary)



**Contents area
 (교과지식) 학습**

What is



?

Level	단계	구성호수	구성
Low	Yellow	1호~12호	교재,과학교구,생태물
Intermediate	Pink	1호~12호	교재,과학교구,생태물
High	Green	1호~12호	교재,과학교구,생태물

1개월 4주수업분량의 총 36개월 프로그램

1주 1 Lesson, 주제별 4주 커리큘럼으로 심플한 진도관리

주차별
수업자료
제공

NEW FLYING APPLE Science GREEN 01

LESSON 1	4	Content Area	Life Science	Theme	Seeds	Content	Welcome to My Garden!
LESSON 2	10	Content Area	Physics	Theme	Sound	Content	Did You Hear an Echo?
LESSON 3	16	Content Area	Chemistry	Theme	Density	Content	Let's Give It a Try!
LESSON 4	22	Content Area	Earth Science	Theme	Earth	Content	X-mas in Summer

주차	Content Area	원리동영상
L1(1주차)	Life Science (생명과학)	
L2(2주차)	Physics (물리)	
L3(3주차)	Chemistry (화학)	
L4(4주차)	Earth Science (지구과학)	

'Life Science 원리동영상은 배경지식이 필요한 일부 호에서 제공됩니다'

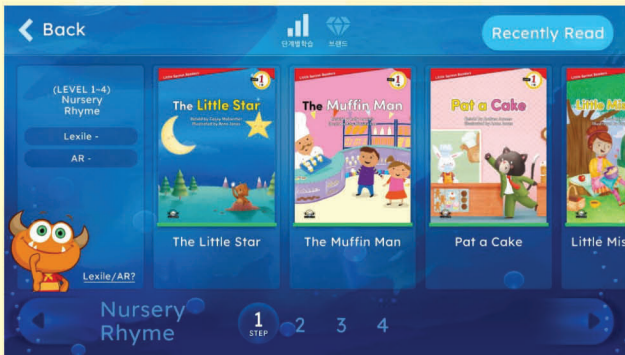
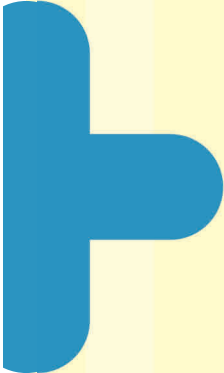
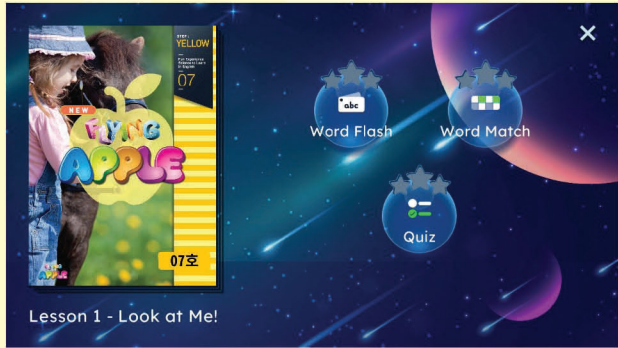


Fun to Learn!

Additional Digital Learning Services **FREE**



단어, 문장에 대한 게임식 학습
(플래쉬 카드 학습 포함)



(개인별 Extensive Reading 영어도서관)

세계명작 및 다양한 주제들로 이루어진 리더스 학습을 해보세요.

(해외 유명 원서등 약 1천권)



Monthly Lesson Flow

LESSON 1

Content Area	Theme
Life Science	Invertebrate Animals

A Sea Explorer

Learning Objective
Students will be able to learn about the characteristics of hermit crabs.

Key Words
hermit crab / explore / climb / hide / shell / sea

Scan to watch the videos for learning vocabularies and science principles on BIGBOX.

Let's Talk Q. 1. Have you ever seen crabs?
2. How does a crab feel?
3. Where do hermit crabs live?

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L1
Life Science
(생명과학)



LESSON 2

Content Area	Theme
Physics	Gravity

Submarines Go Up and Down

Learning Objective
Students will be able to explain the effects of buoyancy.

Key Words
submarine / under / water / tank / rise / empty / buoyancy / gravity

Scan to watch the videos for learning vocabularies and science principles on BIGBOX.

Let's Talk Q. 1. What are some kinds of water transportation?
2. Have you ever ridden on a ferry?
3. Where does a submarine go?

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Physics 11

L2
Physics
(물리)

레슨별로 **전문화, 세분화**하여 1주에 1개 영역씩
깔끔한 수업 진행



LESSON 3 Content Area: Chemistry Theme: Separation

Who Is Faster?

Learning Objective
Students will be able to experiment with chalk chromatography and discuss separation of colors.

Key Words
separate / faster / winner / spread / weight / speed / different / mix

to watch the videos for learning vocabularies and science principles on **BigBox**.

Let's Talk Q. 1. Have you ever used water-based markers?
2. Did you know that colors have different weights?
3. How fast can you run? What makes you run faster?

Chemistry 17

L3
Chemistry
(화학)

NEW

ING
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L4
Earth Science
(지구과학)

Content Area: Earth Science Theme: Earth

Who Is Faster?

Learning Objective
Students will be able to experiment with chalk chromatography and discuss separation of colors.

Key Words
Earth / air / water / creature / live / temperature

to watch the videos for learning vocabularies and science principles on **BigBox**.

Let's Talk Q. 1. If you see the Earth from space, what shape does it have?
2. Do you think there are any other creatures in other planets?
3. What do we need to survive?












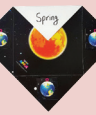





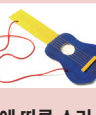






22 NEW EATING APPLE Earth Science 23



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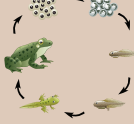




세부주제

Curriculum organized by Daeun Im

호	주차	주제	Yellow	Pink	Green
1호 (3월)	L1 (Life Science)	Monthly Theme (월주제)	씨앗		
		Weekly Theme (주별주제)	 강낭콩 키우기	 콩나물 키우기	 씨앗수초 키우기
	L2 (Physics)	Monthly Theme (월주제)	소리생성		
		Weekly Theme (주별주제)	 소리발생 - 진동	 소리발생 - 마찰	 전화기, 소리의 전달
	L3 (Chemistry)	Monthly Theme (월주제)	밀도		
		Weekly Theme (주별주제)	 밀도에 따른 분리	 밀도에 따른 이동	 밀도에 따른 속도
	L4 (Earth Science)	Monthly Theme (월주제)	지구		
		Weekly Theme (주별주제)	 지구만들기	 지구의 낮과 밤	 지구의 공전, 계절 지도
2호 (4월)	L1 (Life Science)	Monthly Theme (월주제)	풀과 나무		
		Weekly Theme (주별주제)	 잔디인형 키우기	 개운죽, 여러해살이 풀	 행운목, 나무
	L2 (Physics)	Monthly Theme (월주제)	악기		
		Weekly Theme (주별주제)	 부피에 따른 소리, 드럼	 길이에 따른 소리, 피리	 두께에 따른 소리, 기타
	L3 (Chemistry)	Monthly Theme (월주제)	용해와 용액		
		Weekly Theme (주별주제)	 용해되는 물질	 온도와 용해	 용해와 농도
	L4 (Earth Science)	Monthly Theme (월주제)	우주		
		Weekly Theme (주별주제)	 달의 모양과 환경	 태양	 태양계 행성

다양한 과학주제를 연령특성에 맞게 설계한
재미있는 체험학습 프로그램








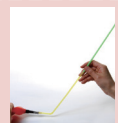
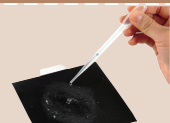
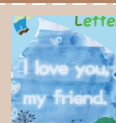












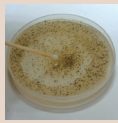



호	주차	주제	Yellow	Pink	Green
3호 (5월)	L1 (Life Science)	Monthly Theme (월주제)	꽃		
		Weekly Theme (주별주제)	 카네이션	 채송화	 메리골드
	L2 (Physics)	Monthly Theme (월주제)	온도		
		Weekly Theme (주별주제)	 온도의 표현	 대류 현상	 단열과 보온
	L3 (Chemistry)	Monthly Theme (월주제)	물질의 상태		
		Weekly Theme (주별주제)	 자성을 이용한 분리	 크로마토그래피	 용해를 이용한 분리
	L4 (Earth Science)	Monthly Theme (월주제)	바다		
		Weekly Theme (주별주제)	 바다 만들기	 갯벌 만들기	 해양오염
4호 (6월)	L1 (Life Science)	Monthly Theme (월주제)	물속 생활		
		Weekly Theme (주별주제)	 조개, 어패류	 개구리의 일생	 제브라다anio, 어류
	L2 (Physics)	Monthly Theme (월주제)	수평		
		Weekly Theme (주별주제)	 수평, 넘어지지 않아요	 무게중심, 누가 더 무겁나	 지렛대 원리
	L3 (Chemistry)	Monthly Theme (월주제)	흡수		
		Weekly Theme (주별주제)	 물의 흡수	 색의 흡수	 종이에 따른 흡수 차이
	L4 (Earth Science)	Monthly Theme (월주제)	물의 여행		
		Weekly Theme (주별주제)	 물의 순환	 계곡과 강과 바다	 토양유실

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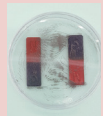








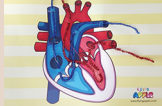









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세부주제

호	주차	주제	Yellow	Pink	Green
5호 (7월)	L1 (Life Science)	Monthly Theme (월주제)	무척추 동물		
		Weekly Theme (주별주제)	 소라게 피리 만들기	 씨몽키	 다슬기, 연체동물
	L2 (Physics)	Monthly Theme (월주제)	중력		
		Weekly Theme (주별주제)	 중력, 아래로 떨어져요	 부력, 잠수함	 무중력, 우주에서 날아다니기
	L3 (Chemistry)	Monthly Theme (월주제)	방수		
		Weekly Theme (주별주제)	 비에 젖지 않는 이유	 왁스의 성질	 방수를 이용한 물건
	L4 (Earth Science)	Monthly Theme (월주제)	대기현상		
		Weekly Theme (주별주제)	 구름	 풍속계 만들기	 눈과 비
6호 (8월)	L1 (Life Science)	Monthly Theme (월주제)	기관		
		Weekly Theme (주별주제)	 방귀, 소화기관	 심장, 순환기관	 오줌, 배설기관
	L2 (Physics)	Monthly Theme (월주제)	탄성의 이용		
		Weekly Theme (주별주제)	 고무줄 자동차	 탄성 딱따구리	 용수철 저울을 이용한 무게측정
	L3 (Chemistry)	Monthly Theme (월주제)	표면장력		
		Weekly Theme (주별주제)	 동전 물방울	 클립 띄우기	 후추야 어디가?
	L4 (Earth Science)	Monthly Theme (월주제)	자연재해		
		Weekly Theme (주별주제)	 천등번개	 토네이도	 황사

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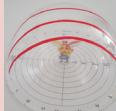














호	주차	주제	Yellow	Pink	Green
7호 (9월)	L1 (Life Science)	Monthly Theme (월주제)	기관		
		Weekly Theme (주별주제)	 감각, 감각기관	 호흡, 호흡기관	 뼈와 근육, 골격기관과 근육기관
	L2 (Physics)	Monthly Theme (월주제)	자석		
		Weekly Theme (주별주제)	 일부 금속만 당기는 자석	 인력과 척력	 자기장 관찰
	L3 (Chemistry)	Monthly Theme (월주제)	물질의 상태		
		Weekly Theme (주별주제)	 고체	 액체	 기체
	L4 (Earth Science)	Monthly Theme (월주제)	환경		
		Weekly Theme (주별주제)	 풍력 에너지	 정수기	 종이 만들기
8호 (10월)	L1 (Life Science)	Monthly Theme (월주제)	기관		
		Weekly Theme (주별주제)	 미각, 감각기관	 소화과정, 소화기관	 심장의 구조, 순환기관
	L2 (Physics)	Monthly Theme (월주제)	전기		
		Weekly Theme (주별주제)	 정전기 인력	 정전기 척력	 정전기 회로
	L3 (Chemistry)	Monthly Theme (월주제)	상태변화		
		Weekly Theme (주별주제)	 응결	 증발	 응고
	L4 (Earth Science)	Monthly Theme (월주제)	시계		
		Weekly Theme (주별주제)	 모래시계	 물시계	 해시계 만들기

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세부주제

호	주차	주제	Yellow	Pink	Green
9호 (11월)	L1 (Life Science)	Monthly Theme (월주제)	곤충		
		Weekly Theme (주별주제)	 장수풍뎅이 모형 만들기1	 귀뚜라미 모형 만들기	 누에의 일생 Diorama
	L2 (Physics)	Monthly Theme (월주제)	빛의 직진과 반사		
		Weekly Theme (주별주제)	 반사를 이용한 장난감	 반사를 이용한 착시효과	 오목거울과 볼록거울
	L3 (Chemistry)	Monthly Theme (월주제)	압력		
		Weekly Theme (주별주제)	 에어로켓	 분수 만들기	 펄프 만들기
	L4 (Earth Science)	Monthly Theme (월주제)	달력		
		Weekly Theme (주별주제)	 양력, 태양의 남중고도	 음력, 달의 모양 변화	 별자리 달력
10호 (12월)	L1 (Life Science)	Monthly Theme (월주제)	채소		
		Weekly Theme (주별주제)	 시금치, 잎채소	 무, 뿌리채소	 감자, 줄기채소
	L2 (Physics)	Monthly Theme (월주제)	빛의 굴절		
		Weekly Theme (주별주제)	 볼록렌즈	 오목렌즈	 굴절을 이용한 착시효과
	L3 (Chemistry)	Monthly Theme (월주제)	부피변화		
		Weekly Theme (주별주제)	 흡수에 따른 변화	 압력에 따른 변화	 온도에 따른 변화
	L4 (Earth Science)	Monthly Theme (월주제)	퇴적		
		Weekly Theme (주별주제)	 풍화와 침식	 흙의 생성	 퇴적암

다양한 과학주제를 연령특성에 맞게 설계한
재미있는 체험학습 프로그램



호	주차	주제	Yellow	Pink	Green
11호 (1월)	L1 (Life Science)	Monthly Theme (월주제)	버섯		
		Weekly Theme (주별주제)	 버섯 만들기	 버섯 번식 방법	 버섯의 영양공급
	L2 (Physics)	Monthly Theme (월주제)	빛의 마술		
		Weekly Theme (주별주제)	 그림자	 눈 안에서 일어나는 굴절	 잔상효과
	L3 (Chemistry)	Monthly Theme (월주제)	연소		
		Weekly Theme (주별주제)	 소화의 조건	 연소 생성물	 연소 조건
	L4 (Earth Science)	Monthly Theme (월주제)	지층		
		Weekly Theme (주별주제)	 지층	 시상화석	 표준화석
12호 (2월)	L1 (Life Science)	Monthly Theme (월주제)	미생물		
		Weekly Theme (주별주제)	 손세정제 만들기	 곰팡이 제거제 만들기	 발표 - 호떡 만들기
	L2 (Physics)	Monthly Theme (월주제)	빛과 색		
		Weekly Theme (주별주제)	 무지개, 빛의 분산	 색의 합성, 가산혼합 & 감산혼합	 물질의 색, 빛의 흡수 & 반사
	L3 (Chemistry)	Monthly Theme (월주제)	산, 염기		
		Weekly Theme (주별주제)	 산성비의 원인과 피해	 양배추 지시약	 산성과 염기성
	L4 (Earth Science)	Monthly Theme (월주제)	지진과 산		
		Weekly Theme (주별주제)	 지진	 화산	 현무암과 화강암



LESSON 1

Content Area	Theme
Life Science	Microorganisms

Bacteria : Is It Good or Bad?

Learning Objective

Students will be able to tell the effects of bacteria on our lives.

Key Words

bacteria / brush / wash / digest / good / bad

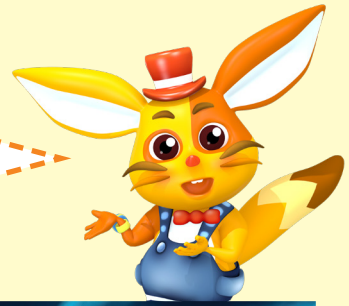


Scan to watch the videos for learning vocabularies and science principles on **BIGBOX**.

학습목표,
목표단어 제시

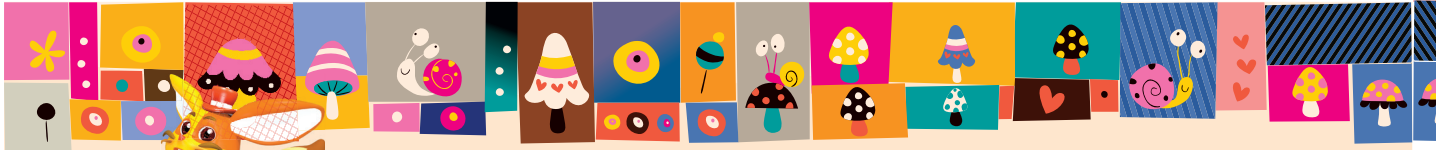
해당레슨별
비디오클립
확장학습
(스마트폰앱)

단순 영어번역교재가 아닌 **전문어학원** 강사님들의
수업프로세스를 반영한 유일한 **전문 영어교재**



주제에 대한
배경지식
끌어내는 질문팁

- Let's Talk** Q. 1. What should you do first before you eat something?
2. What happens if you don't brush your teeth well?
3. Where do we have the most bacteria in our body?



STORYTIME

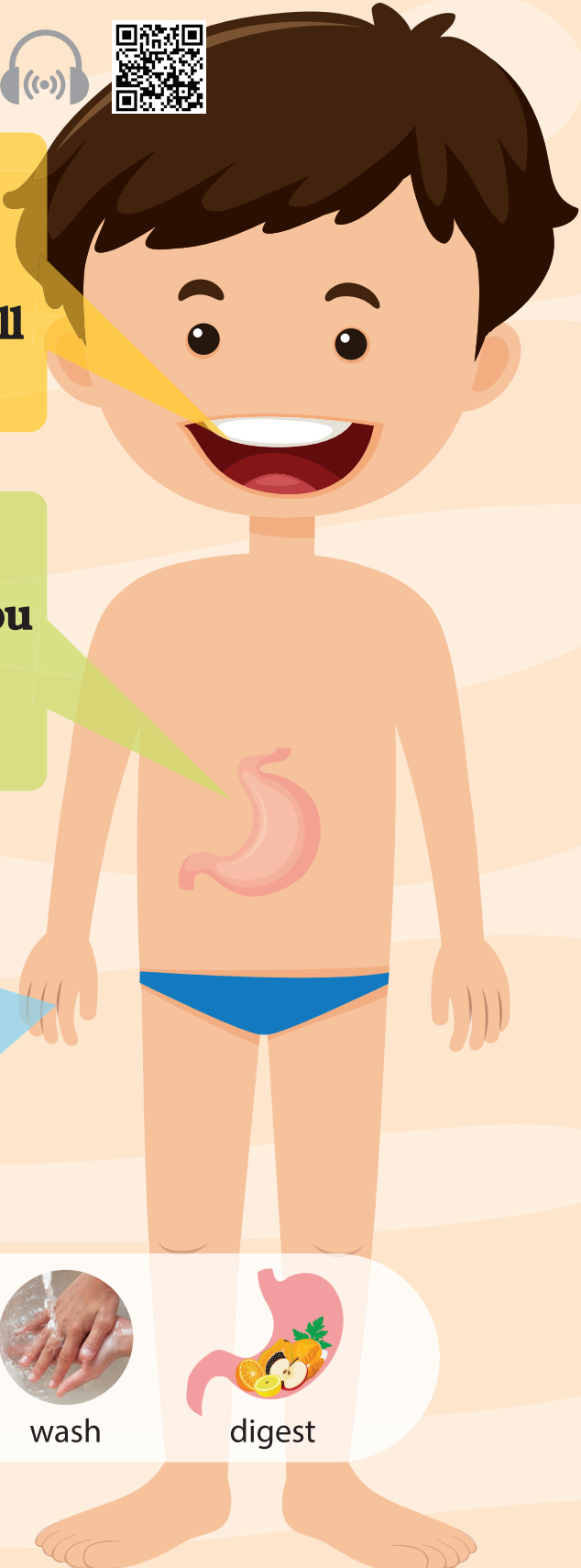
>> Where do bacteria live in our body?



Brush your teeth, or I will eat all of your teeth.

I will help you digest well.

Wash your hands, or you will get a cold.



bacteria brush wash digest

단순 영어번역교재가 아닌 **전문어학원** 강사님들의
수업프로세스를 반영한 유일한 **전문 영어교재**

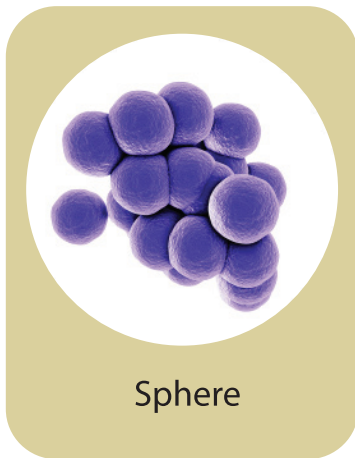


LESSON 1

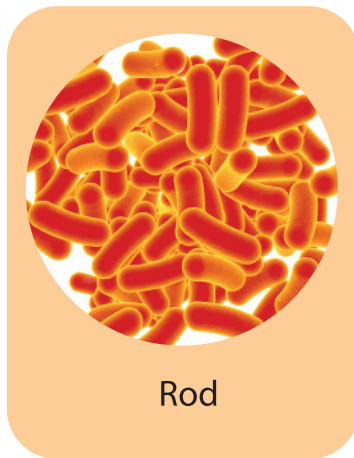
Bacteria : Is It Good or Bad?

Think and Talk

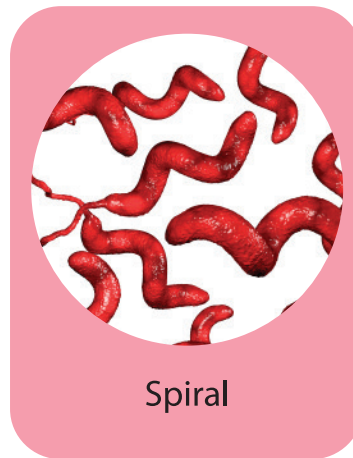
>> What shape do bacteria look like?



Sphere



Rod



Spiral

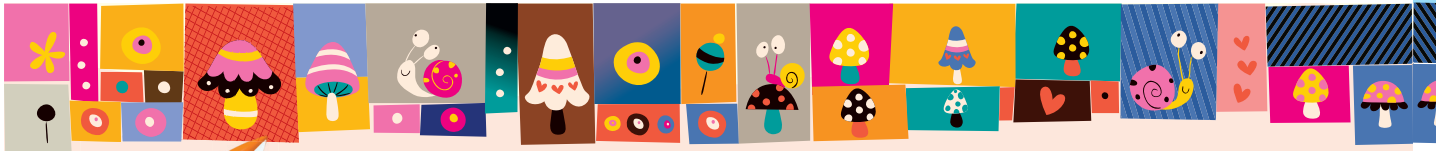
>> What do bacteria do in our body?



In your intestines, there are good and bad bacteria.

If the good bacteria become stronger, you will be [healthy / sick].

On the other hand, if the bad bacteria become stronger, you will be [healthy / sick].



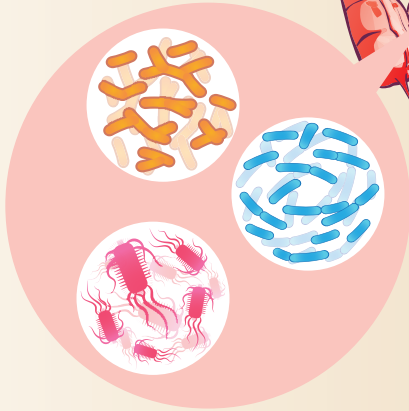
WHY?

>> What are the effects of bacteria on our body?



원리동영상으로 쉽고
재미있는 과학원리학습
(스마트폰,PC)

Easy to Teach!



In our intestines, helpful bacteria which make us healthy and harmful bacteria which make us sick live together. Good bacteria help us digest food, fight infection, and make some essential vitamins.



교과지식학습



Know and Expression

>> How should we prevent colds?



Wash your hands.



Eat well.



Exercise regularly.

단순 영어번역교재가 아닌 전문어학원 강사님들의
수업프로세스를 반영한 유일한 전문 영어교재



LESSON 1 Bacteria : Is It Good or Bad?



Let's Do It

>> Make hand sanitizer

직접체험해보기
(수업재료 일체제공)

Fun to Learn!



1



Put ethanol in the bottle.

2



Add glycerin to the bottle.

3



Close the bottle and shake to mix.

4



Draw bacteria on the stickers
and decorate the bottle.

5



Spray hand sanitizer on your hands and
rub them together before you eat something.



체험교구 (실험교구)

실생활 주변에서 흔히 접하고 있는 현상들에 대한 과학적 호기심을 생명과학, 물리, 화학, 지구과학 활동을 통해 직접 체험하여 이해하게 하는 과학체험교육입니다.

원리 동영상과 애니메이션을 통해 "왜 이럴까?"에 대한 해답인 과학원리를 자연스럽게 체득하게 합니다.



과학원리동영상 및 애니메이션 예시

QR코드를 통해 직접 영상을 확인해 보세요.

* 과학원리지식 전달을 위해 영어, 한글 녹음 두 가지 버전을 제공합니다.

L1 Life science Yellow 05호



L2 Physics Pink 09호



L3 Chemistry Yellow 12호



L4 Earth Science Green 02호





Life Science

개인별 Life Science 수업자료 제공 (생태물 포함)

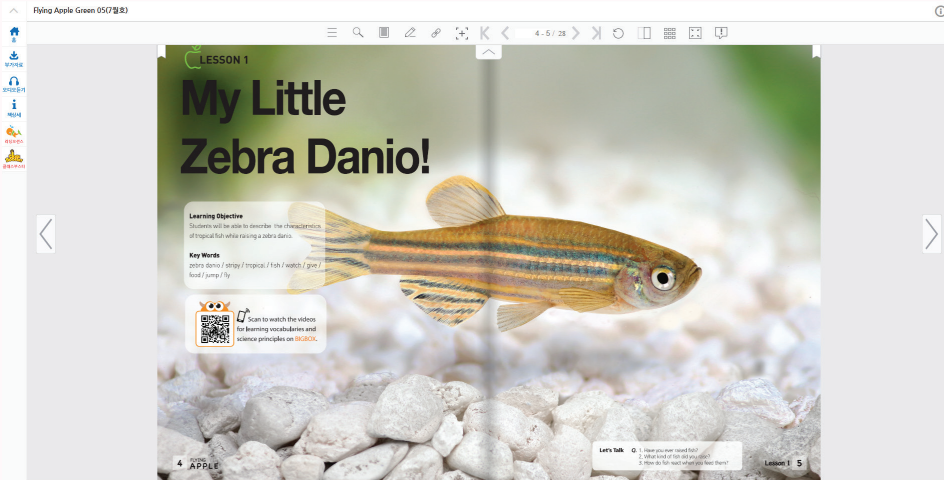
생명의 소중함을 직접 체험하게 하는 자연친화적 생태체험교육을 실현합니다.

	Monthly Theme(월주제)	Yellow	Pink	Green
1호 (3월)	씨앗	 생태물 강낭콩 키우기	 생태물 콩나물 키우기	 생태물 씨앗수초 키우기
2호 (4월)	풀과 나무	 생태물 잔디인형 키우기	 생태물 개운죽 <small>농원별도배송</small>	 생태물 행운목, 나무 <small>농원별도배송</small>
3호 (5월)	꽃	 생태물 카네이션	 생태물 채송화 <small>농원별도배송</small>	 생태물 메리골드 <small>농원별도배송</small>
4호 (6월)	물속 생물	 생태물 조개, 어패류	 생태물 개구리의 일생	 생태물 제브라다니오 <small>농원별도배송</small>
5호 (7월)	무척추동물	 생태물 소라게피리 만들기	 생태물 씨몽키, 갑각류	 생태물 다슬기 <small>농원별도배송</small>
6호 (8월)	기관	 생태물 방귀, 소화기관	 생태물 심장, 순환기관	 생태물 오줌, 배설기관
7호 (9월)	기관	 생태물 감각, 감각기관	 생태물 호흡, 호흡기관	 생태물 뼈와 근육, 골격기관과 근육기관
8호 (10월)	기관	 생태물 미각, 감각기관	 생태물 소화과정, 소화기관	 생태물 심장의 구조, 순환기관
9호 (11월)	곤충	 생태물 장수풍뎡이 모형만들기	 생태물 귀뚜라미 모형만들기	 생태물 누에의 일생 Diorama
10호 (12월)	채소	 생태물 시금치, 잎채소 <small>농원별도배송</small>	 생태물 무, 뿌리채소 <small>농원별도배송</small>	 생태물 감자, 줄기채소 <small>농원별도배송</small>
11호 (1월)	버섯	 생태물 버섯 만들기	 생태물 버섯의 번식방법 <small>농원별도배송</small>	 생태물 버섯의 영양공급 <small>농원별도배송</small>
12호 (2월)	미생물	 생태물 손세정제 만들기	 생태물 곰팡이 제거제 만들기	 생태물 발효, 호떡만들기

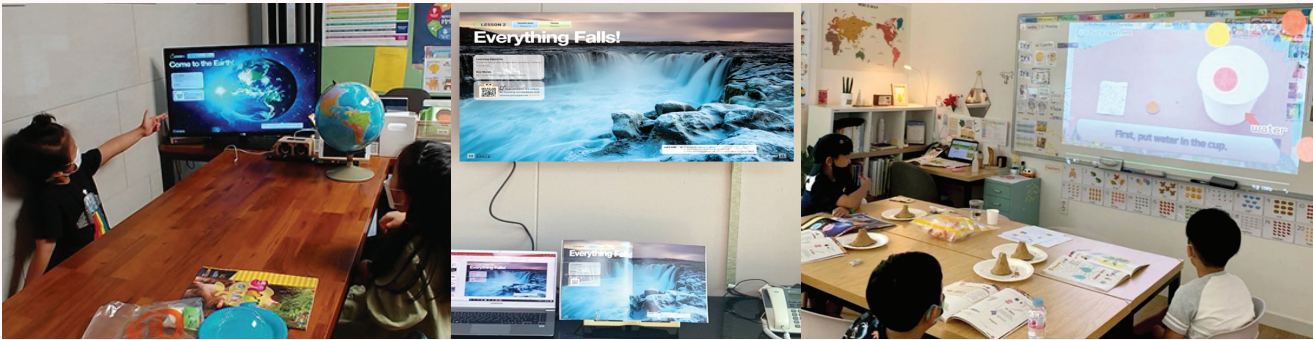


Teaching material

교실수업용 E-Book flyingapple.co.kr ▶ 교수자료실



전자칠판, TV, PC 모니터등 대형 화면에 송출하여 생생한 Digital Book 수업



Lesson Plan (TG) flyingapple.co.kr ▶ 교수자료실

Step	Yellow 07	Lesson 1	Lucky Bamboo
Theme	Lucky bamboo plants	Key Words	call, me, lucky, bamboo, guess, water, purify, air, bloom, flowers, smell, reproduce, stem
Learning	Students will be able to raise a lucky bamboo plant using hydroponics.		
Objective	Lucky bamboo, vase		
Materials	*T prepares water for the plants a day before the class.		
PROCEDURE		NOTES	
Warm Up			
T asks Ss to think about what brings them luck. T asks Ss to say: / I feel lucky when... / Today we are going to start to grow a lucky bamboo plant.			
Development			
1) Let's talk, p.5			
T uses discussion questions to guide Ss to talk about lucky bamboos. If Ss have never seen this plant, T asks Ss to look at the photo on p.7 and describe what lucky plants look like.			
2) Storytime, p.6			
T reads story aloud. Ss repeat line by line.			
T adds key words with photos or props.			
T explains that lucky bamboo plants have been a symbol of good fortune and prosperity for thousands of years in Asia. They are said to bring health, love and luck.			
3) Hello Eco - Look and say, p.8			
T reads the story about or plays audio file. Ss repeat line by line.			
T quizzes Ss on the information provided. For example: / How do lucky bamboos reproduce? / Ss: Through their stems! / Do lucky bamboos have flowers? / Ss: No, they don't!			
4) Do It Yourself! p.9			
Ss prepare materials for the DIY.			
Ss repeat after T the name of each material.			
T shows step by step how to grow a lucky bamboo plant.			
T explains that when a plant is grown in water without any soil this is called hydroponics. 'Hydro' means water.			
T explains more about caring for lucky bamboos.			
1. Shady place - Direct sunlight makes the leaves go brown.			
2. Water - If you use tap water straight from the tap, this can also cause the leaves to go brown because of chemicals in the water.			
3. The water needs to be refilled every time the level falls by about half.			
*Ss write name under the vase BEFORE starting DIY.			

Which Fruits and Vegetables Grow Best Hydroponically?

1) Draw a line between the picture and its name.
2) Trace the names of the fruit and vegetables.

- strawberries
- herbs
- celery
- greens
- tomatoes
- beans
- cucumber

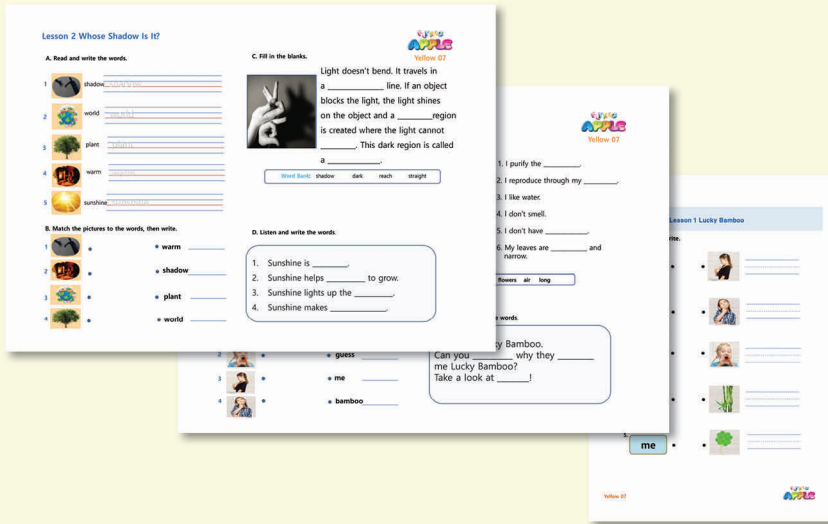
4주 X 36호=
총 144주
레슨플랜 제공

수업절차별로 세분화된 레슨플랜을 제공합니다.

Worksheets

flyingapple.co.kr ▶ 교수자료실

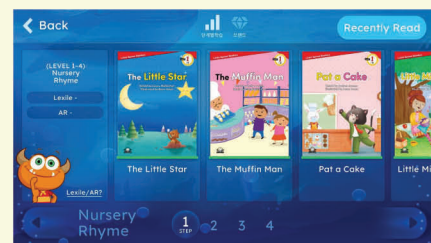
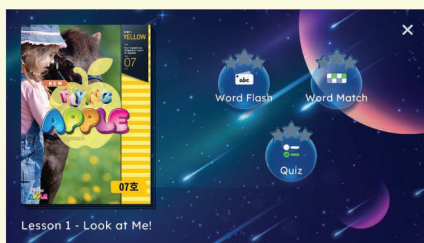
Primary (초등용), Kinder (유치용) 2가지 Type 제공



2 Type X 36호 =
총 72종
워크시트 제공(8p)

온라인학습 Activity 교실 수업용

 **BIGBOX** (PC 버전 설치)



FLYING APPLE 단어,문장에 대한 게임식 학습 (플래시카드 학습포함)

Online: EnvsrReading@logjam



개인별 Extensive Reading 영어도서관

* 학생은 스마트폰앱 설치후 개인별 사용가능



Year's Plan (Scopes & sequences)

YELLOW Scopes & Sequences

	Content	Learning Objective	Theme	초등교과	
1호	Lesson 1	Bean Story	Identifying characteristics of kidney beans and planting them.	Seeds	4-1
	Lesson 2	I Am a Musician	Exploring how different instruments make sound.	Sound	3-2
	Lesson 3	Floating Oil on the Soup	Exploring why cooking oil floats on the soup by learning the density of different liquids.	Density	3-2
	Lesson 4	Come to the Earth!	Learning about the characteristics of the Earth and why we can live on the Earth.	Earth	3-1
2호	Lesson 1	Hi, I'm Grass	Learning about how seeds grow and observing seeds sprout from a grass doll.	Grass and Trees	4-1
	Lesson 2	Bum, Bum! Hit the Drum!	Making a drum sound and explore the relationship between the size of a drum and its pitch.	Instruments	3-2
	Lesson 3	Where Did the Sugar Go?	Experimenting with lump sugar to learn about dissolution.	Dissolution	5-1
	Lesson 4	Who Lives on the Moon?	Learning about the characteristics of the Moon.	Space	6-1
3호	Lesson 1	Happy Parents' Day!	Learning about carnations and thanking our parents.	Flowers	4-2
	Lesson 2	Is It Hot or Cold?	Learning about hot and cold temperatures.	Heat	3-1
	Lesson 3	Attach to the Magnet!	Experimenting with the properties of magnets.	Separation	4-1
	Lesson 4	Amazing Sea	Learning about the characteristics of the sea.	Sea	5-1
4호	Lesson 1	A Pearl Inside the Clam	Recognizing different kinds of clams	Water Animals	3-2
	Lesson 2	Straight Line or Curved Line?	Making a level and identifying different kinds of lines	Balance	4-1
	Lesson 3	Up Goes the Water!	Examining capillary action by watching water move upwards.	Absorption	4-2
	Lesson 4	Go On A Trip	Exploring the water cycle.	Water Travel	4-2
5호	Lesson 1	A Sea Explorer	Learning about the characteristics of hermit crabs.	Invertebrate Animals	3-2
	Lesson 2	Everything Falls!	Experimenting with gravity by making a marble fall.	Gravity	5-2
	Lesson 3	Raindrop Racer	Learning about the characteristics of paraffin.	Waterproof	3-1
	Lesson 4	Cotton Candy in the Sky	Exploring the shapes and characteristics of clouds.	Weather Phenomena	5-2
6호	Lesson 1	Poot! Who Farted?	Learning about our digestive system and understanding why our bodies emit gas.	Organ Systems	6-2
	Lesson 2	Vroom Vroom!	Explaining the principle of elasticity and making a rubber band car.	Elasticity	5-2
	Lesson 3	Water Drops Like Themselves	Exploring the surface tension in a full cup of water.	Surface Tension	3-1
	Lesson 4	Thunder Goes Boom!	Making a "thunder tube" to learn how sound is produced.	Natural Disaster	5-2
7호	Lesson 1	Look at Me!	Exploring the five senses from each organ.	Organ Systems	6-1
	Lesson 2	What Do Magnets Attract?	Making a magnetic picture frame and exploring the attraction of magnets.	Magnet	3-1
	Lesson 3	Solids Are Hard	Learning about the characteristics of solids.	States of Matter	3-2
	Lesson 4	Where Are You From?	Learning about how electricity is made.	Environment	5-2
8호	Lesson 1	Enjoy Your Meal!	examining and explaining how our tongue works.	Organ Systems	6-2
	Lesson 2	My Hair Is Standing on End!	Learning about static electricity.	Electricity	6-2
	Lesson 3	Ants Drink Drops of Dew	observing the change of water from water vapor into liquid water.	Changes of State	4-2
	Lesson 4	Sand Falls in Hourglasses	experimenting an hourglasses and learning about various tools used to measure time.	Clock	6-1
9호	Lesson 1	Which Beetles have Horns?	Observing beetles and learning about the life cycle of insects.	Insects	5-1
	Lesson 2	What is a Kaleidoscope?	Learning about how kaleidoscopes work and studying reflected patterns.	Light	4-2
	Lesson 3	How Much Does Air Weigh?	Making model air guns and learning about air density.	Pressure	6-1
	Lesson 4	What Date Is It Today?	figuring out the characteristics of a solar calendar.	Calendar	6-1
10호	Lesson 1	Spinach Makes Us Strong	Transplanting and growing spinach seedlings.	Vegetable	4-2
	Lesson 2	Look through the Lens!	Examining how objects look different under water drops.	Refraction of light	6-1
	Lesson 3	Oh, no!	Experimenting with water absorption using coin tissues.	Changes of Volume	5-2
	Lesson 4	Wind Is A Sculptor	learning about the characteristics of sandstones.	Sedimentary Rock	3-2
11호	Lesson 1	I Like Mushrooms!	Learning about fungi by raising mushrooms.	Mushroom	5-2
	Lesson 2	Sunshine and Shadows	Learning about light by making shadow puppets.	Magic of Lights	4-2
	Lesson 3	Put the Fire Out!	figuring out how to put out a fire.	Combustion	6-2
	Lesson 4	How the	exploring how soil layers are formed.	Soil layers	3-2
12호	Lesson 1	Bacteria, is it Good or Bad?	Learning about the effects of bacteria on our lives.	Bacteria	5-2
	Lesson 2	Let's Make a Rainbow!	Examining and explaining how to make a rainbow.	Colors	6-1
	Lesson 3	Take my Umbrella!	Learning about the causes and effects of acid rain.	Acid rain	5-2
	Lesson 4	The Shaking Ground!	Examining why an earthquake happens.	Earthquake	4-2



Year's Plan (Scopes & sequences)

PINK Scopes & Sequences

	Content	Learning Objective	Theme	초등교과	
1호	Lesson 1	Grow, Grow, Bean Sprouts!	Growing soybean sprouts and explain how they grow.	Seeds	4-1
	Lesson 2	Chirp, Chirp Cicada!	Making model cicadas and observing the relationship between sound and vibration.	Sound	3-2
	Lesson 3	Move, Move High!	Exploring why the different densities of liquids make the solution move with toothpicks and sugar.	Density	3-2
	Lesson 4	Good Morning, My Sun!	Learning about the rotation of the Earth, and why there are daytime and nighttime in a day.	Earth	3-1
2호	Lesson 1	Lucky Bamboo	Planting "lucky bamboo".	Grass and Trees	4-1
	Lesson 2	Blow the Melody Maker!	Making a pan pipe with straw and explore the relationship between length and pitch.	Instruments	3-2
	Lesson 3	Where's the Sugar?	Experimenting with sugar to learn about dissolution.	Dissolution	5-1
	Lesson 4	A Shiny Star, the Sun	Learning about the characteristics of the Sun.	Space	6-1
3호	Lesson 1	Hello, Little Moss Rose!	Observing and growing rose moss.	Flowers	4-2
	Lesson 2	Go Up and Down!	Exploring convection.	Heat	3-1
	Lesson 3	Who Is Faster?	Experimenting with chromatography using chalk, and discussing separation of colors.	Separation	4-1
	Lesson 4	At the Mudflats	Recognizing the importance of mudflats	Sea	5-1
4호	Lesson 1	Tadpoles and Frogs	Learning about the life cycle of a frog.	Water Animals	3-2
	Lesson 2	Fun at the Playground	Finding out the center of gravity which balances an object.	Balance	4-1
	Lesson 3	Fun with Dye	Observing how substances change when stained with dye.	Absorption	4-2
	Lesson 4	Water Flows to the Ocean	Learn about landforms and bodies of water.	Water Travel	4-2
5호	Lesson 1	Hi, Little Sea Monkey	Identifying the characteristics of sea monkeys and studying how they grow.	Invertebrate Animals	3-2
	Lesson 2	Submarines Go Up and Down	Explaining the effects of buoyancy.	Gravity	5-2
	Lesson 3	The Secret Letter	Identifying properties of paraffin wax by experimenting with candles.	Waterproof	3-1
	Lesson 4	Whoosh, the Wind Blows!	Discussing how we feel the wind.	Weather Phenomena	5-2
6호	Lesson 1	My Tummy Hurts!	Making simplified stethoscopes and examining how sound travels.	Organ Systems	6-2
	Lesson 2	"Tap, Tap, Tap, It's a Woodpecker!"	Learning about friction by making a model woodpecker that slides down a pole.	Elasticity	5-2
	Lesson 3	A Water Skater on A Pond	Learn about surface tension and how water skaters can walk on water.	Surface Tension	3-1
	Lesson 4	Scary Tornado	Understanding about natural disasters.	Natural Disaster	5-2
7호	Lesson 1	Air Moves In And Out	Figuring out the respiratory system and how the lungs change by breathing in and out.	Organ Systems	6-1
	Lesson 2	The Flying Butterfly	Demonstrating magnetic attraction and repulsion with magnets.	Magnet	3-1
	Lesson 3	Liquids Change Shape	Learning about the characteristics of liquid.	States of Matter	3-2
	Lesson 4	Save Clean Water!	clean dirty water with a water purifier.	Environment	5-2
8호	Lesson 1	Bread Becomes Smaller and Smaller	examining and explaining how we digest food.	Organ Systems	6-2
	Lesson 2	Rubbing Rod Makes It Move	learning about the electrical force of attraction and repulsion.	Electricity	6-2
	Lesson 3	It Feels Cool!	experimenting how evaporation causes cooling with an alcohol swab.	Changes of State	4-2
	Lesson 4	Water Tells the Time	Making a water clock and learning about various tools used to measure time.	Clock	6-1
9호	Lesson 1	All About Crickets	Observing crickets and learning about other autumn insects.	Insects	5-1
	Lesson 2	Reflect Me Everywhere!	learning about the characteristics of light and making a mirror box.	Light	4-2
	Lesson 3	Fountain Fun	Making a fountain with plastic bottles to learn about volume and density of air.	Pressure	6-1
	Lesson 4	The Moon Is Smiling	figuring out the characteristics of a lunar calendar.	Calendar	6-1
10호	Lesson 1	The Giant Radish	Observing the growing radish and comparing root vegetables to leaf vegetables.	Vegetable	4-2
	Lesson 2	Abacadabra! Grow Big, Grow Small!	Experimenting with light refraction using concave lenses, cooking oil and water.	Refraction of light	6-1
	Lesson 3	How Much Can You Push?	comparing how the volumes of water and air can change.	Changes of Volume	5-2
	Lesson 4	Mud Becomes a Rock!	learning about the characteristics of mudrocks.	Sedimentary Rock	3-2
11호	Lesson 1	The Mushrooms Are Growing	Observing the growth of mushrooms and their changing appearance.	Mushroom	5-2
	Lesson 2	What Do Insects See?	Experimenting with light refraction using concave lenses, cooking oil and water.	Magic of Lights	4-2
	Lesson 3	What a Big Balloon!	Examining the role of oxygen in burning fire.	Combustion	6-2
	Lesson 4	Who Lived There?	making a clam fossil and learning about how they are formed.	Soil layers	3-2
12호	Lesson 1	Mold, where are You?	Learning about the characteristics of mold	Mold	5-2
	Lesson 2	Color Dots Make A Man!	Observing a method to create colors by using Pointillism.	Colors	6-1
	Lesson 3	Make Red Pickle with Cabbage!	Experimenting how the color of cabbage changes into red.	Indicator	5-2
	Lesson 4	An Angry Volcano	Learning about what materials come out from a volcanic activity.	Volcano	4-2



Year's Plan (Scopes & sequences)

GREEN Scopes & Sequences

	Content	Learning Objective	Theme	초등교과	
1호	Lesson 1	Welcome to my Garden!	Learning the effects of water gardening and grow aquatic plants.	Seeds	4-1
	Lesson 2	Did You Hear an Echo?	Making a telephone with string and observing how sound travels in an echo.	Sound	3-2
	Lesson 3	Let's Give It a Try!	Learning the relationship between the density and the moving speed of a solution.	Density	3-2
	Lesson 4	X-mas in Summer	Exploring the revolution of the Earth and why there are four seasons where we live.	Earth	3-1
2호	Lesson 1	Good Luck!	Growing a corn plant and explore the differences between grass and trees.	Grass and Trees	4-1
	Lesson 2	I Like the Guitar	Learning about string instruments and make different sounds with a guitar.	Instruments	3-2
	Lesson 3	Rainbow Tower	Making different solutions and build a tower by considering each density.	Dissolution	5-1
	Lesson 4	We Are the Solar Family!	Learning about the solar system and the name of each planet.	Space	6-1
3호	Lesson 1	Marigold Story	Describing the characteristics of marigold flowers	Flowers	4-2
	Lesson 2	Keep Warm and Cool	Exploring some methods to keep cool or warm.	Heat	3-1
	Lesson 3	Pass Through It!	Separating sand from salt by using dissolution.	Separation	4-1
	Lesson 4	I Want to Breathe	Knowing what pollutes the sea and find out how to save the sea.	Sea	5-1
4호	Lesson 1	My Friend, Zebra Danio	Studying appearance and characteristics of tropical fish while raising Zebra Danio.	Water Animals	3-2
	Lesson 2	My Robot Arm	Making a robot arm to observe how levers work.	Balance	4-1
	Lesson 3	A Newspaper Gets Wet	Exploring the absorption of different kinds of paper.	Absorption	4-2
	Lesson 4	Plant Lots of Trees	Learning why soil erosion occurs and methods to prevent erosion.	Water Travel	4-2
5호	Lesson 1	A Cleaner of Water	Learning about the characteristics of marsh snails and how to raise them.	Invertebrate Animals	3-2
	Lesson 2	Rocketing into Space!	Discussing the differences between life on Earth and in space.	Gravity	5-2
	Lesson 3	Rolling Down the Water Beads	Understanding how waterproof things work and how to make an umbrella.	Waterproof	3-1
	Lesson 4	Is It Raining or Snowing?	Learning which conditions make snow and rain.	Weather Phenomena	5-2
6호	Lesson 1	I Have to Pee!	Learning about the excretory system.	Organ Systems	6-2
	Lesson 2	How Heavy Is It?	Demonstrating elasticity through experimenting with a spring scale.	Elasticity	5-2
	Lesson 3	Scattering Pepper	Exploring the change after surface tension breaks.	Surface Tension	3-1
	Lesson 4	What Happened to the Yellow Sky?	Learning about yellow dust and the effects of masks.	Natural Disaster	5-2
7호	Lesson 1	Who Is Strongest?	Figuring out the functions of bones and muscles.	Organ Systems	6-1
	Lesson 2	Magnets Draw A Map	Exploring magnetic fields and force with iron filings.	Magnet	3-1
	Lesson 3	Gases Are Free	Learning about the characteristics of gas.	States of Matter	3-2
	Lesson 4	Recycling Is Fun!	Finding out the necessity and the effects of recycling.	Environment	5-2
8호	Lesson 1	My Pulse Is Beating Fast!	examining and explaining how our heart works.	Organ Systems	6-2
	Lesson 2	The Bulb Is On	figuring out the characteristics of conductors.	Electricity	6-2
	Lesson 3	Freeze the Milk!	observing how to change a liquid into a solid.	Changes of State	4-2
	Lesson 4	Jump on Shadows!	Making sundials and learning about various tools used to measure time.	Clock	6-1
9호	Lesson 1	Silkworms Love Mulberry Leaves	Observing how silkworms turn into moths through metamorphosis.	Insects	5-1
	Lesson 2	A Mirror Draws A Painting!	learning about the characteristics of light.	Light	4-2
	Lesson 3	Pumping Water Uphill	Experimenting change of the height of water with pressure.	Pressure	6-1
	Lesson 4	What Is Your Star?	figuring out a way of telling time with stars.	Calendar	6-1
10호	Lesson 1	The Amazing Potato	Observing the growth of sweet potato sprouts.	Vegetable	4-2
	Lesson 2	Becoming Invisible	Experimenting with light refraction.	Refraction of light	6-1
	Lesson 3	You're Running a Fever!	exploring the change of volume with temperature.	Changes of Volume	5-2
	Lesson 4	Gather up Pebbles!	learning about the characteristics of a conglomerate.	Sedimentary Rock	3-2
11호	Lesson 1	Fascinating Fungi	Raising mushrooms and learning about the life cycle of fungi.	Mushroom	5-2
	Lesson 2	How Pictures Move	Understanding how cartoons are animated through zoetrope cameras.	Magic of Lights	4-2
	Lesson 3	There's a Fire!	Learning about the products of combustion reactions.	Combustion	6-2
	Lesson 4	Have You Seen a Dinosaur?	Exploring how fossils are formed.	Soil layers	3-2
12호	Lesson 1	How to Make Cheese?	Learnig about fermented food and making a dough by using fermentation.	Fermentation	5-2
	Lesson 2	An Apple Reflects Red Light	Experimenting how we can distinguish colors.	Colors	6-1
	Lesson 3	Check the Rainbow table!	Using a pH paper and sorting out acid and base from substances.	Acid and Base	5-2
	Lesson 4	Let's Go to Jeju!	Learning about the differences of basalt and granite.	Igneous rock	4-2



Year's Plan (Scopes & sequences)



stella1004

실험을 통한 자연스런 영어노출을 할 수 있고, 실험내용을 발표할 수 있어서 활용이 높은 교재네요.
평소에 매달 한번씩 이런 수업을 진행하고 있었는데, 교재가 나와서 너무 기뻐요.
자료도 포함되어 있고, 거기다 자세한 설명과 문제, 부가자료까지 정말 제가 찾던 완벽한 교재네요.



프레이야112(pure****) 1성 11

영어과학은 융합교육에 있어서 늘 염두해 두고 있었던 부분인데
이렇게 완전한 구성과 커리큘럼을 만나게 되어 정말 너무나도 반가웠습니다.
주 1회 월 4회 커리로 36개월치가 이미 나와있으니 따로 커리연구 할 필요없고
생물, 교재, 기타 교구 모두모두 포함된 구성으로 간편하게 구매만해서 수업만 하면 되니
이보다도 거저먹는 수업이 있을까 싶네요~



브레인톡톡

영어수업으로 이것 저것 많은 액티비티를 해보았지만 언어를 가르치며
영어수업에서의 한계가 느껴지기도 했는데 이렇게 리얼 체험식 과학프로그램으로
생명과학 실험을 영어수업과 접목하니 아이들도 즐거워하고, 머리에 쏙쏙 더 남는
영어수업이 된 것 같습니다.



공가족

생물을 키우며 가꾸고 관리하는 체험도 하고 여러가지 과학실험도 하면서
단어 공부도 좀 하고 플라잉애플 진짜 마음에 드는 프로그램이에요.



오드리샘

리얼체험식 과학프로그램으로 과학실험을 영어수업과 접목하니 아이들도 즐거워하고,
머리에 쏙쏙 더남는 영어수업이 되네요.



luckynikky

공부라기 보다는 체험형식이라서 아이들이 좋아하고 호응도 아주 좋네요^^



엘리한스

빅박스 어플로 플라잉애플 주제에 맞는 해외영상등 서비스까지 아이들 눈높이에 맞춰
무료로 제공받으니 넘 좋네요.

Social Studies
Art & Crafts
Fun Learning
about the World

Theme Based Activities Linked to the Year Long Curriculum of
Kindergarten and Elementary School

Flying World!



누리과정 & 초등통합교과
월교육주제가 연계된

체험식 Project Learning 프로그램

Best Partner
Science Program
with

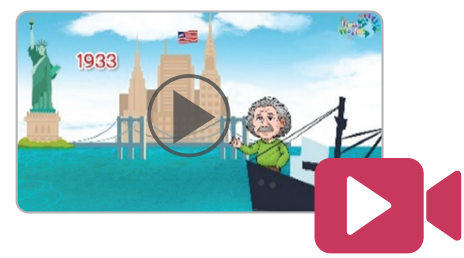
FLYING APPLE

INPUT

A Student Book (Practical Exercises)

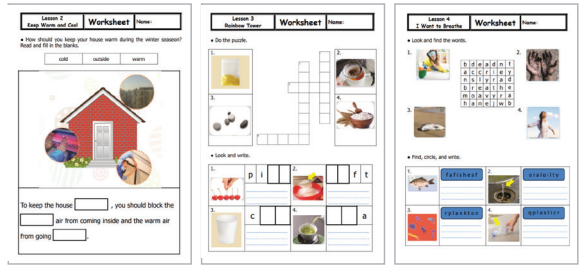


B World History Video Clips



OUTPUT

E More Worksheets



Extended Activity Tips

C Art & Crafts (체험교구)



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Keep Thinking! Keep Trying!
체험식 CLIL 프로그램 개발선두 기업

070-5057-0981

flyingworld05@gmail.com