



MELS Centre

(Ages: 2-15)



English (Montessori Phonics-44)

Lesson contents

44 sounds

There are 24 consonant sounds and 20 vowel sounds in the English language.

/p/ /b/ /k/ /d/ /f/
/g/ /h/ /r/ /l/ /t/
/dʒ/ /n/ /m/ /θ/ /w/
/s/ /j/ /z/ /v/
/ŋ/ /tʃ/ /ʃ/ /ʒ/ /ð/

/æ/ /e/ /i/ /ɒ/ /ʌ/
/eɪ/ /i:/ /aɪ//əʊ/
/u:/ /ʊ/ /ɔ://ɑ:/
/3:/ /aʊ/ /ɔɪ//eə/
/ɪə/ /ʊə/ /ə/

24 Consonant sounds

20 Vowel sounds





3 levels

The 44 sounds can be divided into 3 levels according to the phonemes.





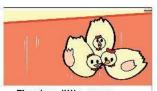
/IƏ/ hear, here, heer
/eɪ/ sale, aim, bay
/ɔː/ cork, tall, core

K1 K2 K3

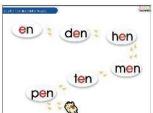


The app teaching includes real images, video clips, interactive animations and more to aid teaching.

Books preview



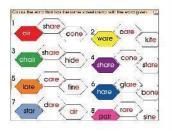
The ten little men look at the big hens.











ten





Connect your mobile devices with big display units wirelessly toincrease the interactivities among teachers and learners.



English (Montessori Phonics-44)

Textbooks

K1





















K2





















K3





















For further information,









Teaching Software

Flash Cards

Monthly Assessment

Teaching Guide



Mathematics (Integrating Higher Order Thinking Skills)



Lesson contents

Get to know "one" Big and small; Tall and short; Many and few

Get to know "two" shapes(circle;triangle; rectanale)

Get to know "three" colours(red, yellow, purple, orange, blue, green)

Get to know "four" colours and shapes

Get to know "five" Breaking down numbers:2-5

Get to know "six" Breaking down numbers:6; Squence: 1-6; Estimation

Get to know "seven" Breaking down numbers:7; Squence:1-7; Estimation:height

Get to know "eight" Breaking down numbers:8; Squence:1 -8: Estimation:weight

Get to know "nine" Breaking down numbers:9; Squence: I-9 Estimation:distance

Get to know "ten" Breaking down numbers: 10; Squence:1-10 Estimation:volume

Numbers:0,1,2 Breaking down numbers:2

Numbers:3 and 4 Breaking down numbers:3 and 4 addition and subtraction

Numbers:5 and 6 Breaking down numbers:5 and 6 addition and subtraction

Numbers:7 and 8 Breaking down numbers:7 and 8 addition and subtraction

Numbers:9 and 10 Breaking down numbers:9 and 10 addition and subtraction Indentify numbers: 11,12; Place values (ones and tens)

Indentify numbers:13,14; Addition with concept of breaking down numbers

Indentify numbers: 15, 16; Subtraction with concept of breaking down numbers

Indentify numbers: 17, 18; Addition with the number

Indentify numbers: 19, 20; Subtraction with the number

K1 first half

K1 second half

K2 first half

K2 second half

Sequence: 1-10; Breaking down numbers 8-10 Addition within 10 (Problem solving); Subtraction within 10 (Problem solvina):

Sequence: 1-20; Breaking down numbers 12-15 Problem solving Addition and

Subtraction(20)

Sequence: 1-30;

Problem solving Addition and Subtraction(30)

Sequence: 1-40; Ones and tens; Problem solving Addition and Subtraction(40)

Sequence: 1-50; coins:

Problem solving Addition and Subtraction(30)

Sequence: I - 60; Two-digit addition(no regrouping); Two-digit subtraction (no regrouping); Fraction

Sequence:1 - 70; Two-digit and one -digit addition(regrouping); time; Problem solving (addition with

regrouping)

Sequence:1 - 80; Two-digit and one-digit subtraction

Iwo-algit and one-algit subtracti (regrouping); time: Problem solving (subtraction with regrouping); Calendar

Sequence:1-90;

Two-digit and two-digit addition (regrouping);

Problem solving (addition with regrouping); Introduction to 2-D shapes

Sequence:1-100; Finding 3-D shapes:

Two-digit and two-digit subtraction (regrouping);

Problem solving (subtraction with regrouping);

K3 first half

K3 second half

Books preview







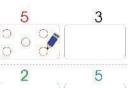




Identify numbers



0









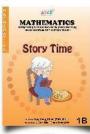
Problem solving

Mathematical concepts

Identify 3-D shapes

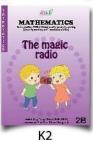
Textbooks





K1





MATHEMATICS





Science: Exploratory and Discovery (Interdisciplinary approach)

Lesson contents

24 Essential scientific concepts

Help children to "get to know" these concepts by "understanding a story", forming a new mental model with videos and working it out with experiments.

1. States of matter C I

Our five senses
 Light and shadow
 Human features
 Shapes and colours
 Living and non-living things

8. Animal kingdom 🔼 🖪

6. Healthy diet

7. Sound

K1

- 2. Energy
 3. Plants
 4. Animal reproduction
 5. Mixing colours
 6. Food chains
 7. Insects
 8. Electricity
- 1. Float and sink in water
 2. Force
 3. Homes of animals
 4. Magnet
 5. Recycling
 6. Measurement
 7. Paper
 8. People and living things



K₁

Textbooks

SCIENCE

SCIENCE

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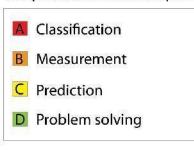


K3

8 learning objectives

Nurture children to master the 8 learning objectives as below through the provided Science experiments and develop the potential.

K2



E Observation

K3

- Critical thinking
- **G** Exploration
- **H** Discussion

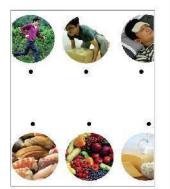
4 types of **skills**

4 types of behaviour

Books preview









Bahasa Melayu

Kandungan Pembelajaran

A-Z & 25 Tema Pembelajaran

Memperkembangkan komunikasi lisan, asas literasi dan memupuk keupayaan memahami, mengungkap dan menghargai Bahasa indah melalui bercerita dan berpuisi.



Membunyikan suku kata terbuka (KV+KV)

Membaca perkataan dengan suku kata terbuka Membaca frasa yang mengandungi perkataan dengan suku kata terbuka Membaca dan menceritakan semula daripada bahan bacaan yang dibaca



Membunyikan suku kata terbuka/tertutup

terbuka/tertutup

(KVK, V+KV, V+KVK, KV+KVK, KVK+KV; KVK+KVK; diftong)

Membaca dan memahami ayat mudah dengan sebutan yang betul Membaca dan menceritakan semula daripada bahan bacaan yang dibaca







幼儿华语

课程内容

本课程将让儿童掌握语言的基本技能: 听话说话阅读和书写、协助儿童积累新知识和新经验

- 看图识字
- 朗读简单的儿歌
- 认识和说出基本笔画的名称









- · 汉语拼音
- · 认识短语 & 理解阅读
- 朗读简单的故事/儿歌
- 针对故事內容发问









- 认识基本部首和偏旁
- 针对故事內容发问
- ·从教材中认识生字
- 理解故事角色、情节与内容









Textbooks & Workbooks





K1











Fine Motor Skills

Lesson contents

4 groups of fine motor skills training



Children learn to colour with their whole arm.



They also learn to pinch, knead and twist to create shapes.

whole arm



Train the children to push the string through the holes accurately. This will increase the accuracy of the pincer movement.



pincher

Children will manipulate objects with their fingers and to help train their muscles they will perform activities.

10 themes

pincer

Engaging children with different themes and toys to help them improve their fine motor skills.



On the beach



The kitchen





Safari

Castle at the seaside

Night scene



The garden



The funfair



A stage performance

Lesson contents

1 story theme + 4 types of toys that train muscles









Engage the children with animations of different themes, then introduce toys that will train their muscle. This can motivate children to learn and the learning process becomes more interesting.







The animation simulates movements for children to imitate.

Flow for teaching:



Children will watch the videos and follow the movement to complete the task.

20 toys per set







Month 7: The garden



Month 9: Castle at the seaside



Month 2: Safari



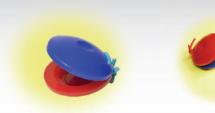
Month 4: The funfair



Month 6: Museum



Month 8: A stage performance

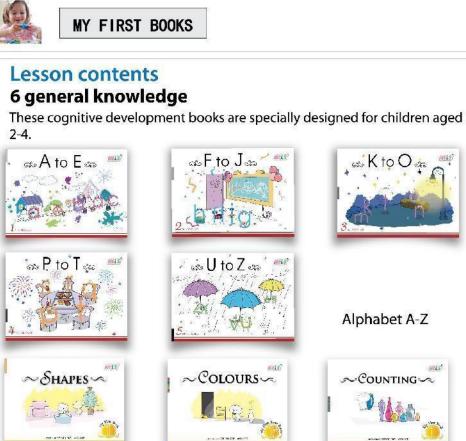


Month 10: Playland



^{**}Product item availability may subject to change without prior notice.

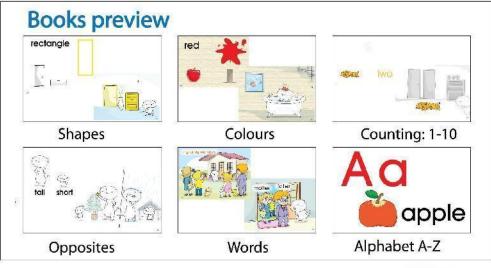




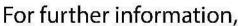




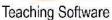
Suitable for N1 or K1 students













Flash Cards

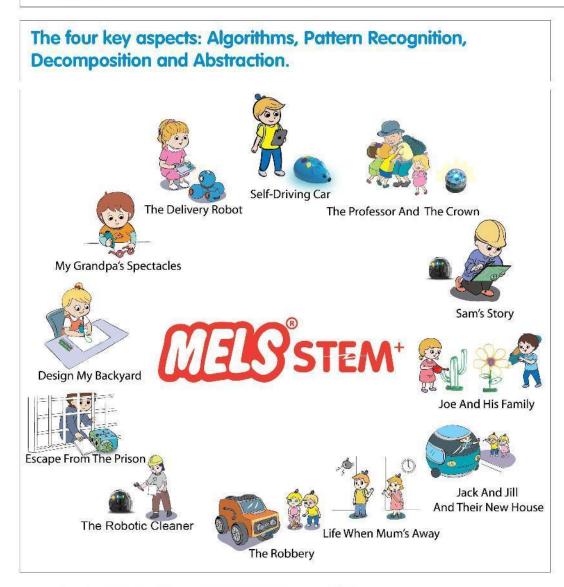


Monthly Assessment



Teaching Guide

STEM⁺ & Computational Thinking













Textbooks















The course has three levels. Each level will apply different robots to solve problems. Ages 5-8



Introduce four fundamental concepts in computing: read the codes; write the codes; apply the codes to solve problems & find various ways to solve a problem.



Arrange solutions in steps Split a problem into steps Compare different solutions Solve a problem with the



Get to know three basic colour codes; apply these codes to program a robotic car; introduce additional three best and only solution in various circumstances.



Creating the awareness in 3D printing: how to join different objects; create a 2D solid surface; tracing a 3D object & 3D printing to solve problems.



Learn to measure the distance and execute the program; set the various directions; set the various speeds & solve a problem by considering the various distances (measure and set)/directions and speeds.



Introduction to Block Coding: Moving Forward & Directions; Write the block coding skills to solve the problem; Introduction to the new function: Pause; Introduction to sound/light coding.

Create a 2D surface of various designs, Join the 2D surfaces into a 3D object;

Create 3D objects; Solve a

problem with 3D creations.

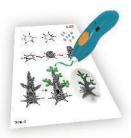


Monitor the movement by adjusting speeds/durations, setting directions for a 2D movement activity; plan steps with different directions and distances; generalize a routine activity by setting steps with various speeds, distances, durations and directions.

level 3



Use remote controllers to move the robots; set the robots to avoid objects; introduction to the idea of looping; solve a logistic problem by moving goods from one point to another.



3D Pen to create a flower tree, to create tree, a sit—up equipment and form a 3D landscaping view.



learn to operate the robot to move forward and to turn to left/right hand side; Set the codes with the app— direction, speed and siren; Set the text message on the LED display; Solve the problem with the various codes.



Introduction to Block

-Coding

The logic of "If—then"

The light sensor

The temperature sensor

Theories of essential knowledge in Machine Learning, Artificial Intelligence and Computational thinking

Level 1: Computational Thinking with essential coding skills & setting IOT devices

Ages 8-12



Learn to code the robot. Solve the tasks with coding skills.



Learn to code the robot. Solve the tasks with coding skills.



Learn to set the IOT devices.

Design automation by coding the IOT devices.



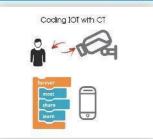
Learn to set the IOT devices.

Join the IOT devices with coding skills.

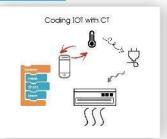
Level 2: Computational Thinking with essential coding skills & setting IOT devices



Learn the codes to control the robot. Code the robot to solve the delivery tasks.



Learn the codes to control the CCTV. Code the robot to solve the recording tasks.



Learn to code/set the IOT devices.
Automate the home IOT devices with codes.



Learn to set the BLE tracking devices. Automate tasks in a smart environment.

Level 4: Computational Thinking with Microbit projects & Cyber Security and Privacy



Setting microbit and Robot. Code the robot with microbit



Learn the basic communication with microbits.

A remote Burglar Alarm project.



Preventive measures in cyber bullying. Games to learn the concept of cyber privacy.





Level 5: Computational Thinking with Arduino projects & Augmented Reality



Get to know basic functions of Arduino. Code the robot arms with Arduino.



Attach an external sensor to Arduino. An Arduino project with the Distance Sensor



Get to know basic Augmented Reality (AR). Get to know the functions of AR in real life.



Attach an external sensor to Arduino 2. An Arduino project with the Motion Sensor



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