

# **Title : Smoogie Kit- A Learning Tool To Enhance The Understanding Of Basic Mathematical Concept Among Primary School Students**

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**Highlights:** Smoogie kit is a learning tool designed for primary school students in enhancing their basic of mathematical concept. This tool contains 4 basic mathematical concept which is addition, subtraction, multiplication and also division. By using colourful and attractive colours this tool will able to attract students to learn mathematic and enjoy answering the question together with teacher guidance.

**Key words:** mathematic education, basic concept, primary school students

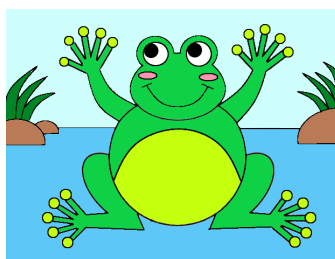
## **Introduction**

Smoogie kit is a mobile mathematic learning tool which is developed to help in mathematic subject for primary school students. Most of students always have a perception that mathematic is a difficult subject to learn. Due to this issues this Smoogie Kit is a tool that can attract their attention to learn mathematic and have fun when answering the question.

Besides, this Smoogie Kit also proven can help students in improving the student's visualization. This learning kit is a new approach to make the learning process when doing mathematics more fun.

The Smoogie kit also has a flashcard that contains questions that will be demonstrated by teachers to the students. To facilitate the learning and teaching process of the Smoogie kit also have manuals explaining how to use the correct Smoogie kit

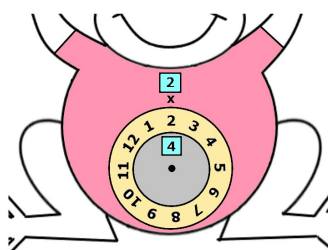
## **How the Smoogie Kit work**



**Addition and Subtraction Concept**

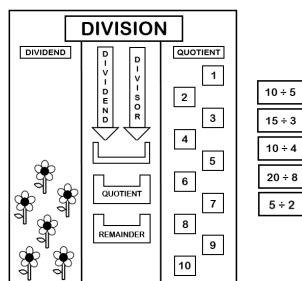
For the addition and subtraction concept, the numbers will be shown by using the hand and foot of the frog. The student will calculated the number with each fingers of the frog as a substitute of human fingers which is the symbolic of body gesture.

By using this body part gesture, the student will also learnt to now and understand the correct sequence of numbers. Teacher will count numbers, he/she flipped the frogs finger to visualized the number to the students by only using fingers.



**Multiplication Concept**

For multiplication concept, the teacher will only turn the numbers on the wheel so it will change the multiplication (1-12) and the answers will shown below. For other multiplication, teacher will changed the number in the small box as the 'x' symbol shown above. Later, when the teachers used the different multiplication so the answers also will changed along with the wheel . To make it the situation more interactive and make the students think and count the answers there will be a small piece of cloth to closed the answers. After the students shout the answers then teachers will open the small piece of cloths to checked the answers. This product prepared factor of 2 until 12 for the students to learn.



### Division Concept

For the division concept, teachers will used flowers stick represents the numbers used for the division process. By replaced the flowers with numbers it will visualized the students and make them more understand the concept.

Teacher will take any flashcard that contains the questions, quotient and also its remainder. Teacher can also used this frog division concept along with showed them the actual calculation on a white board. By doing this thing, student might be get more clearer understanding.

## Contents

### Advantages

- Specially designed according to the primary school student age which is more attractive colours has been used.
- This learning tool kit also prepared the flashcard that contains the questions and make it easy for teachers to teach the students.
- This Smoogie learning kit was designed as a portable learning kit tool and easily for teacher to take it to one class and another.

### Important to education

- **Teachers :** As an new alternative to attract students learn mathematic instead of using the textbook
- **Students :** Help the students to visualizing the concept with the help of 2D frog and also make the learning process more fun and stractive.

### Commercial Value

- Can be commercialize by promoting this Smoogie Learning Kit by promote to the school especially for the primary school.

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