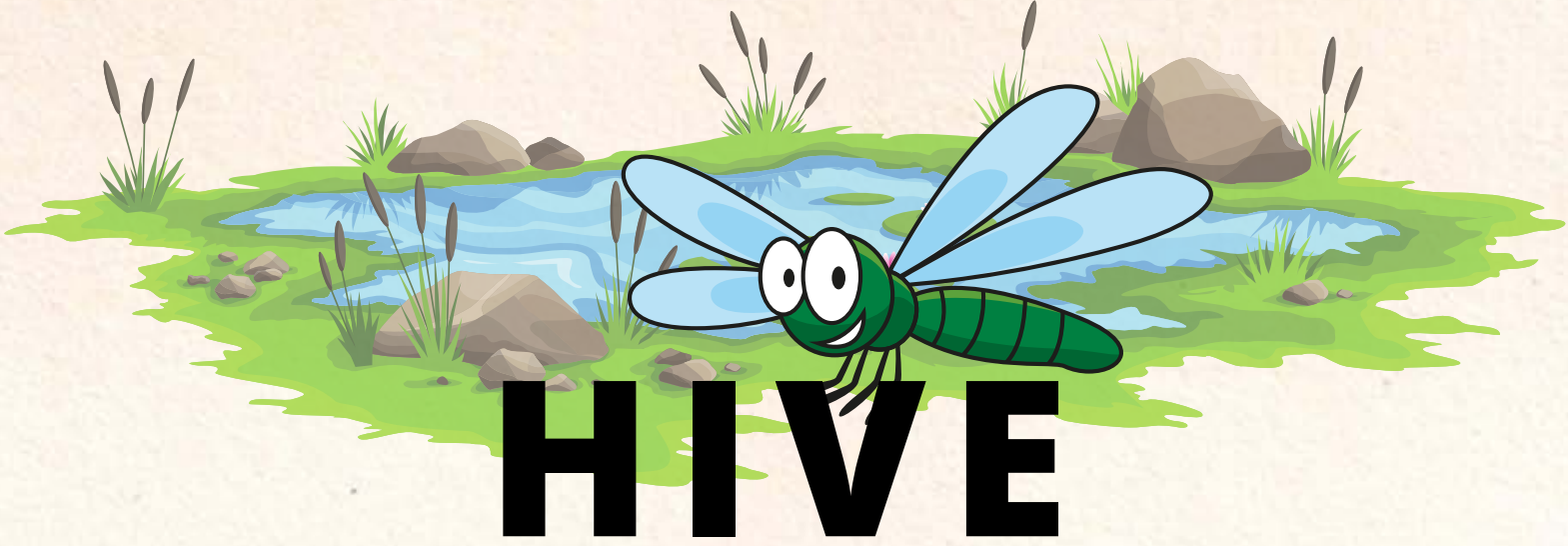


HIVE

Highlights & Insights from Vision Empower (VE)

MONTHLY NEWSLETTER, EDITION 2

Dear Readers,

We are excited to bring to you the second edition of HIVE! As a non-profit working to make STEM (Science, Technology, Engineering and Mathematics) education and CT (Computational Thinking) accessible for children with visual impairment, we invite you to join us on this exciting journey. This month, the highlights of the buzz at VE were celebrating National Science Day, conducting CT Sessions and so much more. We hope you enjoy reading this edition of HIVE 2022.

Graphic Description- A schoolboy wearing black glasses is walking with a cane in his left hand. He is carrying a school bag and holding two books in his right hand.

CT GAME SESSIONS CONDUCTED TILL FEB- 423

Ananya's Favourite Game- Race to 27

Project VICT

(Computational Thinking for the Visually-Impaired)

To introduce numeracy concepts and computational thinking to children with visual impairment, VE's Project VICT (Computational Thinking for Visually Impaired) follows a play-based approach. During, what we call, " CT Game Sessions" the VE educational coordinators play games that are curated to learn CT concepts with children with visual impairment.

LISTEN TO ANANYA!

Let's hear what our 8-year-old student Ananya has to say about her favourite game.

How is it played? The objective of this card game is to be the first to reach 27. The game starts with all the players given cards each. Players then take turns to draw cards from the draw pile in the centre (if necessary) and add their numbers, until a player reaches 27 without spilling over. The player who reaches 27 first, is the winner of the game.

The session starts with a smaller number like 'race to 10 or 15' and once the students become familiar with the game, they race up to bigger numbers such as 27 or 50.

TIKs CREATED- 381
TIKs UPLOADED- 257

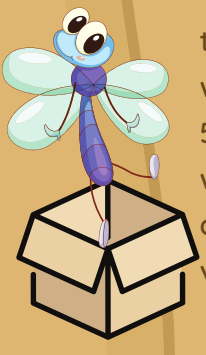
Unboxing a TIK

(Teacher Instruction Kit)

As a part of creating learning resources, VE provides Teacher Instruction Kits (TIKs) to teachers teaching students with visual impairment. TIKs are teaching aids that aim to make STEM concepts understandable and accessible for children with visual impairment. So let's unbox a TIK from February 2022 that aims to guide teachers on how to introduce the concept of a variable in Algebra.

Materials required: Small Sticks/ Ice cream sticks/toothpicks

1. To construct a square we require 4 sticks.
2. Now construct the second square next to the first square so that it shares one side of the first square.
3. Similarly construct 4 more squares. So in total, there will be 6 squares.
4. First 2 squares will have 7 sticks, the first three squares will have 10 sticks, the first four will have 13 sticks, the first five will have 16 sticks and totally we would require 19 sticks to construct 6 squares consecutively.
5. From this, we get a general rule for finding the number of sticks required which is nothing but 3*number of squares +1 where n is the number of squares. and n is any natural number 1,2,3... and it is an example of a variable whose value is not fixed.



Work with Partners

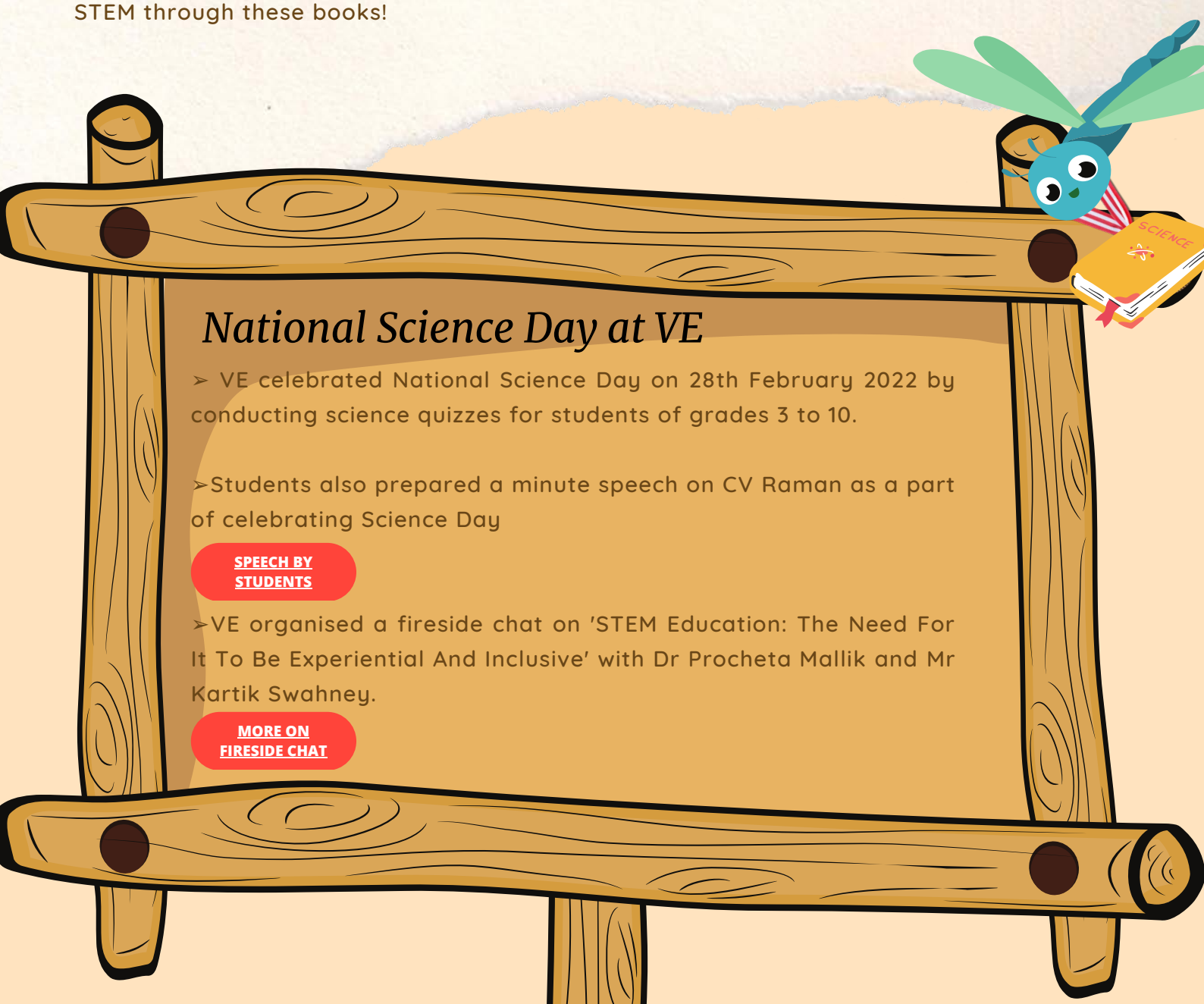
(VE collaborates with Mathruchhaya)

VE truly believes in making Braille Science and Maths Textbooks available to children with visual impairment. For this, VE has collaborated with Mathruchhaya. Mathruchhaya is the Braille Transcription Center at the Canara Bank Welfare Association in Bangalore. Since the collaboration in 2018, together the teams have created Science and Maths Braille Textbooks. These books are made accessible by including alternative text for pictures and tactile diagrams that are not provided in the regular textbooks. These tactile references help students explore and understand the concepts better.

Highlights of the VE x Hope Foundation collaboration:

➢ Braille textbooks created in Kannada medium – Science – 98, Maths – 255
➢ Braille textbooks created in English medium – Science – 165, Maths – 415
➢ Pragya teacher training workshops conducted – 2
➢ Training Sessions on creating Braille books conducted – 3

VE is glad to be working with Mathruchhaya and excited to see more students studying STEM through these books!



National Science Day at VE

➢ VE celebrated National Science Day on 28th February 2022 by conducting science quizzes for students of grades 3 to 10.

➢Students also prepared a minute speech on CV Raman as a part of celebrating Science Day

SPEECH BY STUDENTS

➢VE organised a fireside chat on 'STEM Education: The Need For It To Be Experiential And Inclusive' with Dr Procheta Mallik and Mr Kartik Swahney.

MORE ON FIRESIDE CHAT

AUDIO TUTORIALS CREATED- 111

VE Recommends

(Envision AI App)

Did you know Envision AI is an app that empowers blind and low vision users to be independent by speaking out the visual world around them? All you got to do is open the phone camera to scan any text you want to read, describe scenes around you, etc. The best feature is that Envision AI app can read any piece of text in over 60 different languages.

KNOW MORE ABOUT ENVISION AI

Social Media Highlights

'Making Science Education Accessible'
A Social Media Campaign Vision Empower

On the occasion of National Science Day, Devi, VEs Educational Coordinator shares a video explaining how VE is making Science accessible for children with visual impairment.

WATCH THE VIDEO HERE

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