

The LEGO Foundation

LEGO Braille bricks

M&M
Marc Angelier
Marie Oddoux

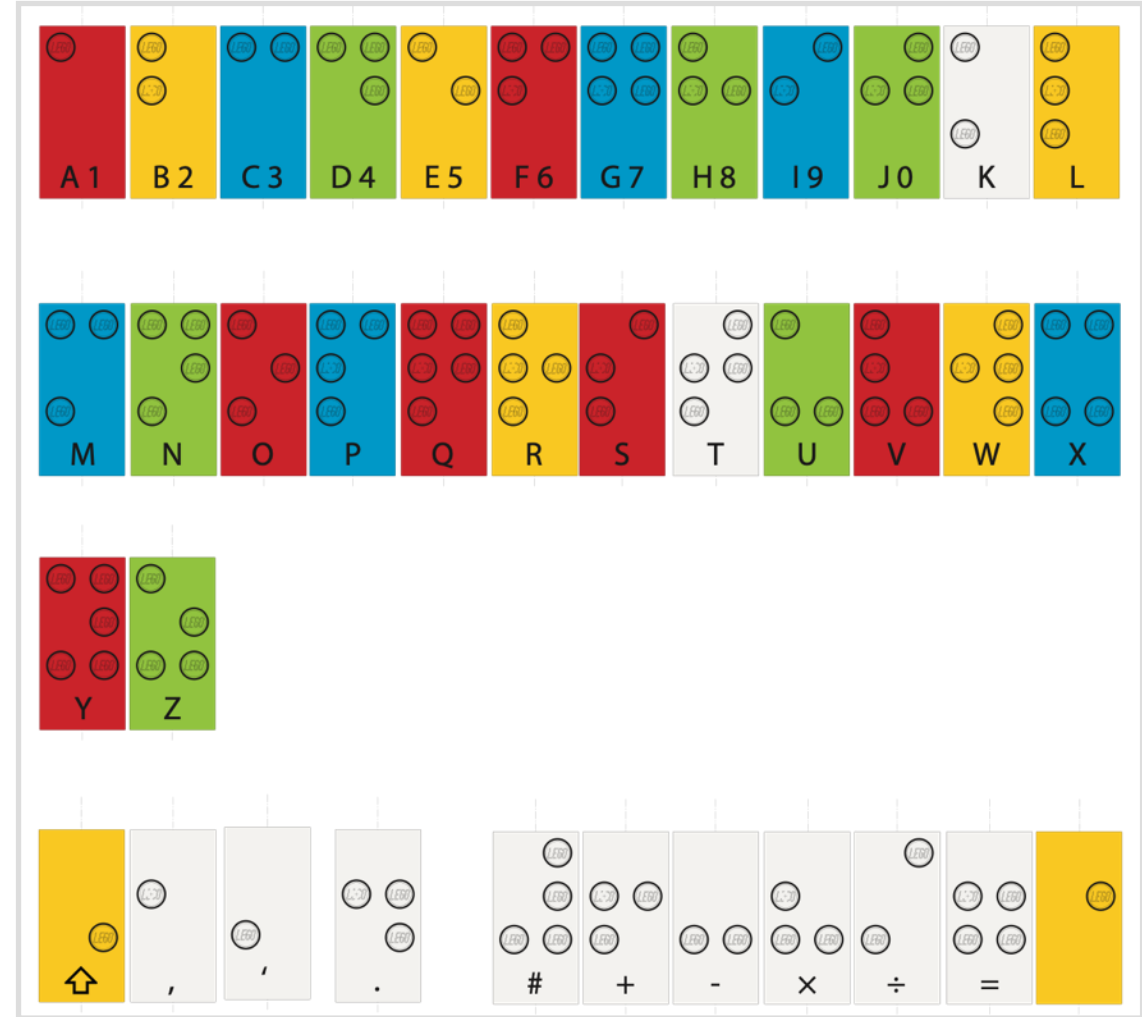
LEGO Foundation braille consultants

Tactile Reading
28th-29th April 2021



What's in the box?

- Number of bricks based on the frequency across 10 languages
- Simple math and punctuation symbols
- Restrictions on number of bricks in the box meant some compromises
- Color selection for each brick – random with rules



The toolkit contains

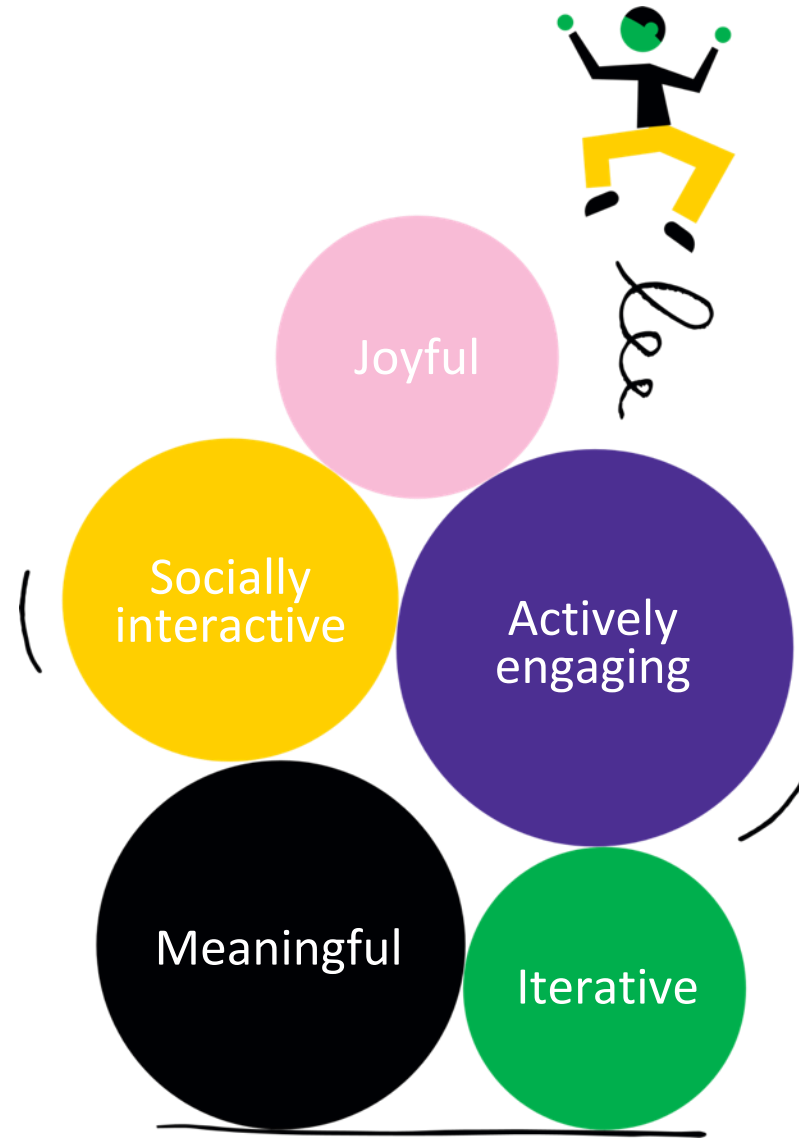
- ❖ 300 bricks : 2x4 bricks
- ❖ 3 base plates
- ❖ A brick separator

A strong Pedagogical Concept



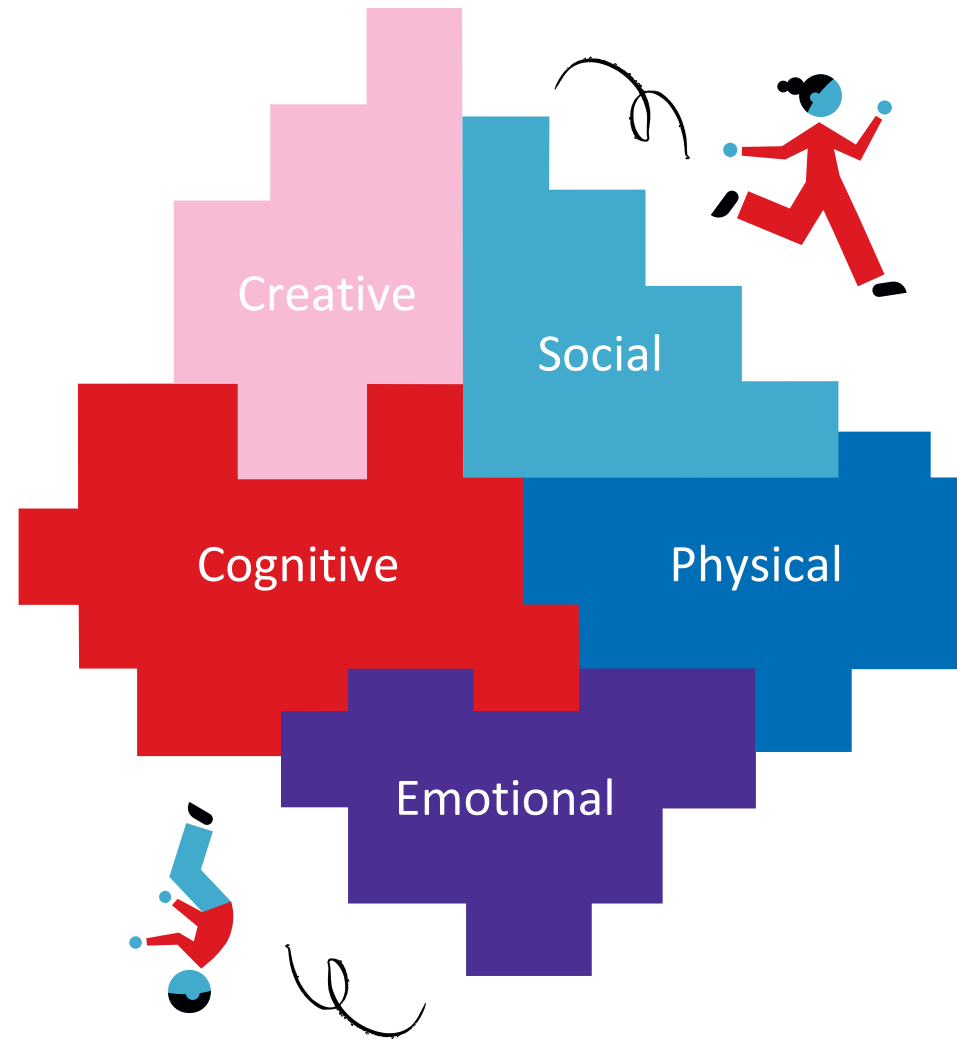
Characteristic of playful learning experiences

These five characteristics ebb and flow as children are engaged in learning through play activities and all five are not necessary all the time. But over time, children should experience moments of joy and surprise, a meaningful connection, be active and absorbed, iterate and engage with others.



Holistic skills

Children's development and learning is complex which is why we take a holistic view and high-light the importance of their physical, social, cognitive, creative and emotional skills and how these complement and interact with one another.



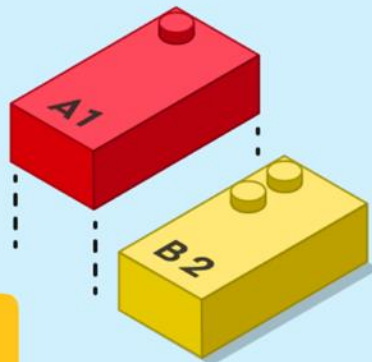
90 activities

Pre-braille

Braille



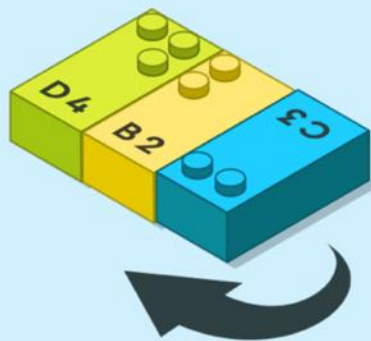
Pre-braille



Manipulation

Discover and get used to the bricks, learn how to handle, assemble and put them on the base plate.

15 activities



Orientation

Learn how to position the bricks on the base plate and be aware that their orientation is important.

15 activities

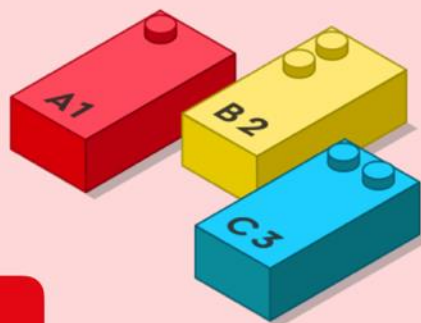


Constellation

Discover the braille cell and how studs are arranged in two columns. Learn how to differentiate the studs.

15 activities

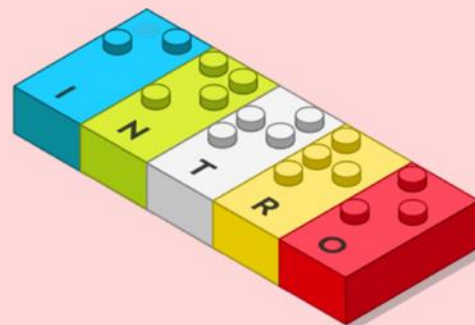
Braille



Characters

Learn braille letters, numbers, mathematic symbols and punctuation signs and know how to read and write them.

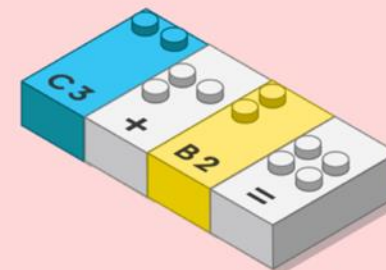
15 activities



Literacy

Assemble characters brick by brick and play with words in order to develop the ability to read and write.

15 activities



Numeracy

Assemble characters, play with numbers and develop the ability to do basic mathematics and geometry.

15 activities

6-Car Parking Lot

15 min 2 participants



Let's play!

Players taking turns:

1. Roll one die and read it. This number equals the number of passengers/studs to ride in your car.
2. Find your car with the right number of passengers.
3. Roll the other die and read it. This number equals the parking space number.
4. Park your car in the corresponding space.
5. Game ends when the entire parking lot is full.

How to prepare

- 1 base plate
- All bricks
- 2 dice

Place bricks on the base plate to create a 6-car parking lot (2 columns of 3 spaces, like a braille cell).

Facilitation tips

- Preliminary exercise: introduce the concept of a parking lot being similar to a braille cell. Name aloud all the parking spaces.
- Build cars with 2 bricks allows easier tactile detection.

Possible variations

- Suggest players build the parking lot.
- Team play: player 1 roll die 1 and find the car, player 2 rolls die 2 and find the space.

Children will develop these holistic skills



Cognitive

- Relate numbers 1 through 6 with braille cell positions/dot number
- Use numbers to show a rank, a position



Creative

- Engage in imaginative play with others



Physical

- Use and produce representations of location



Social

- Follow rules in games led by adult, take turns

Did you know?

- Social interaction is a powerful tool for both learning and play. By communicating their thoughts, understanding others through direct interaction and sharing ideas, children are not only able to enjoy being with others, but also to build deeper understanding and more powerful relationships.

- Title
- Time
- Number of players

How to prepare

- ❖ List of material
- ❖ Teachers' preparation

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Let's play

- ❖ Photos
- ❖ Step by step

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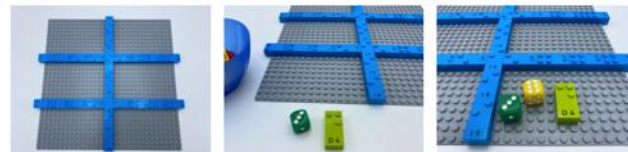
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Download and print

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Download & print

Print

Download in .docx

Share via email

Copy URL

Activity sheet in .docx

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- COGNITIVE - Relate numbers 1 through 6 with braille cell positions/dot number
- COGNITIVE - Use the number to show a rank, a position
- CREATIVE - Engage in imaginative play with others
- PHYSICAL - Use and produce representations of location
- SOCIAL - Follow rules in games led by adult, take turns

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LEGO FOUNDATION

What we Mean by Learning Through Play






PLAY FACILITATION

In Theory and Practice






LEGO BRAILLE BRICKS

All about braille and bricks

PEDAGOGICAL CONCEPT

Play-based Teaching Method


**Hands-on 1
MANIPULATION**

Discover and explore 2 activities of this pre-braille category




**Hands-on 2
ORIENTATION**

Discover and explore 2 activities of this pre-braille category




**Hands-on 3
CONSTELLATION**

Discover and explore 2 activities of this pre-braille category





**Hands-on 4
CHARACTERS**

Discover and explore 2 activities of this braille category





**Hands-on 5
LITERACY**

Discover and explore 2 activities of this braille category

**Hands-on 6
NUMERACY**

Discover and explore 2 activities of this braille category




**Hands-on 7
TIPS & TRICKS**

Ideas to sort the bricks, ideas to prepare the base plate.




**Hands-on 8
TIPS & TRICKS**

Build a portable kit, make your own braille bricks, connect classic bricks to give an answer.




**Hands-on 9
LESSON PLAN**

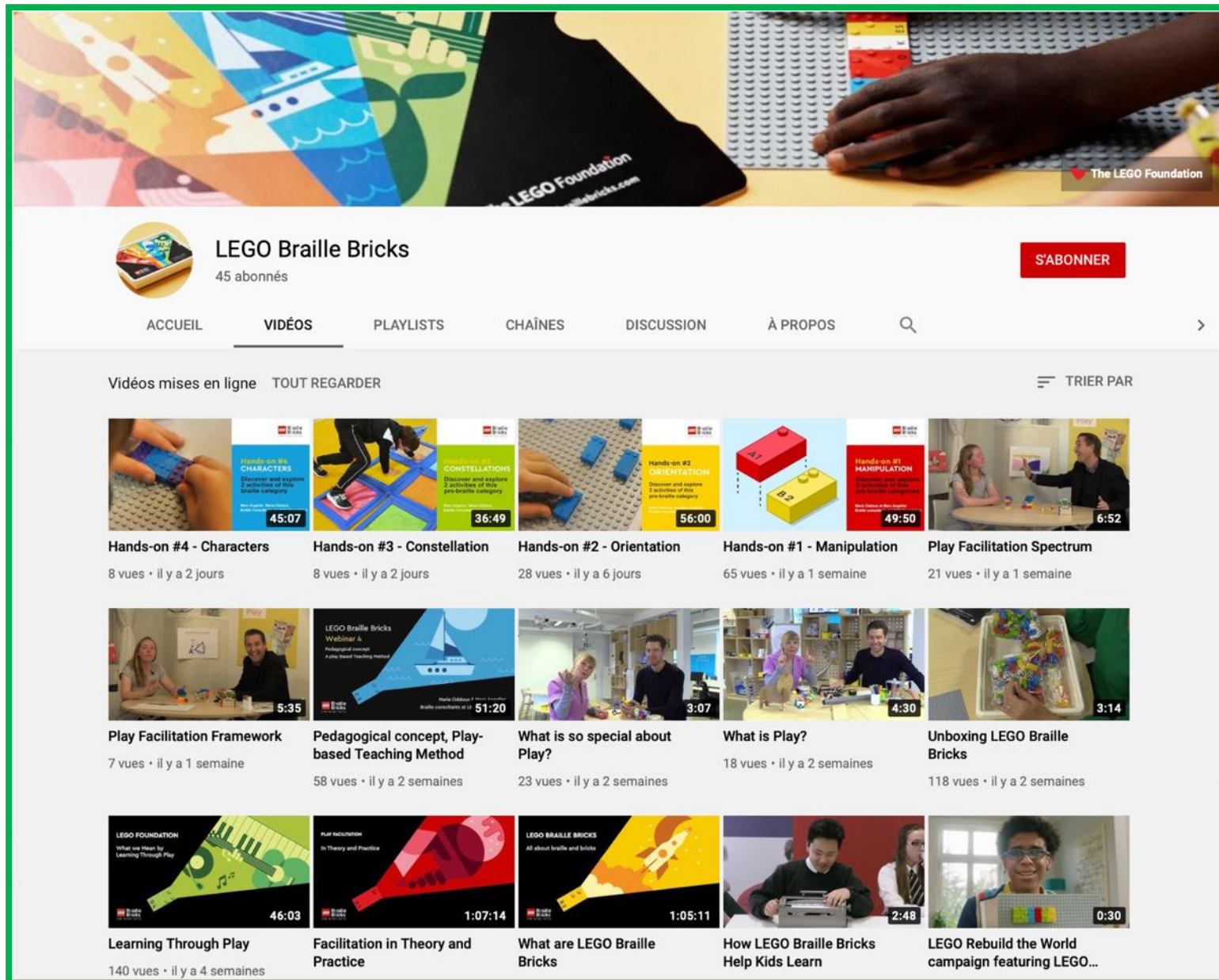
Build a complete lesson plan with various activities.




**Hands-on 10
BREAK OUT SESSION**

Build a lesson plan for a specific child, based on needs, skills and abilities.





The image shows a screenshot of the YouTube channel page for 'LEGO Braille Bricks'. The banner features a colorful abstract design on the left and a close-up of hands building with LEGO bricks on the right. The channel name 'LEGO Braille Bricks' is displayed with a subscriber count of 45. Below the navigation bar, there are tabs for 'ACCUEIL', 'VIDÉOS', 'PLAYLISTS', 'CHAÎNES', 'DISCUSSION', and 'À PROPOS'. The 'VIDÉOS' tab is selected. A list of 15 videos is shown in a grid, each with a thumbnail, title, and view count. The videos include 'Hands-on #4 - Characters', 'Hands-on #3 - Constellation', 'Hands-on #2 - Orientation', 'Hands-on #1 - Manipulation', 'Play Facilitation Spectrum', 'Play Facilitation Framework', 'Pedagogical concept, Play-based Teaching Method', 'What is so special about Play?', 'What is Play?', 'Unboxing LEGO Braille Bricks', 'Learning Through Play', 'Facilitation in Theory and Practice', 'What are LEGO Braille Bricks', 'How LEGO Braille Bricks Help Kids Learn', and 'LEGO Rebuild the World campaign featuring LEGO...'. The page is framed by a green border.

The LEGO Foundation

LEGO Braille Bricks
45 abonnés

S'ABONNER

ACCUEIL VIDÉOS PLAYLISTS CHAÎNES DISCUSSION À PROPOS

Vidéos mises en ligne TOUT REGARDER TRIER PAR

Hands-on #4 - Characters
8 vues • il y a 2 jours

Hands-on #3 - Constellation
8 vues • il y a 2 jours

Hands-on #2 - Orientation
28 vues • il y a 6 jours

Hands-on #1 - Manipulation
65 vues • il y a 1 semaine

Play Facilitation Spectrum
21 vues • il y a 1 semaine

Play Facilitation Framework
7 vues • il y a 1 semaine

Pedagogical concept, Play-based Teaching Method
58 vues • il y a 2 semaines

What is so special about Play?
23 vues • il y a 2 semaines

What is Play?
18 vues • il y a 2 semaines

Unboxing LEGO Braille Bricks
118 vues • il y a 2 semaines

Learning Through Play
140 vues • il y a 4 semaines

Facilitation in Theory and Practice








What are LEGO Braille Bricks

How LEGO Braille Bricks Help Kids Learn


LEGO Rebuild the World campaign featuring LEGO...

Youtube



- 1  **Hands-on #1 - Manipulation**
LEGO Braille Bricks 49:50
- 2  **Hands-on #2 - Orientation**
LEGO Braille Bricks 56:00
- 3  **Hands-on #3 - Constellation**
LEGO Braille Bricks 36:49
- 4  **Hands-on #4 - Characters**
LEGO Braille Bricks 45:07
- 5  **Hands-on #5 - Literacy**
LEGO Braille Bricks 34:34
- 6  **Hands-on #6 - Numeracy**
LEGO Braille Bricks 34:57
- 7  **Hands-on #7 Tips & Tricks 1**
LEGO Braille Bricks 35:55





YouTube




TOUT REGARDER



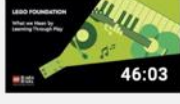



Learning through Play


6 vidéos • 2 vues • Dernière modification le 7 déc. 2020


LEGO Braille Bricks

S'ABONNER





- 1  **What is so special about Play?**
LEGO Braille Bricks 3:07
- 2  **What is Play?**
LEGO Braille Bricks 4:30
- 3  **Learning Through Play**
LEGO Braille Bricks 46:03
- 4  **Facilitation in Theory and Practice**
LEGO Braille Bricks 1:07:14
- 5  **Play Facilitation Framework**
LEGO Braille Bricks 5:35
- 6  **Play Facilitation Spectrum**
LEGO Braille Bricks 6:52






TOUT REGARDER

More about the Toolkit

3 vidéos • 27 vues • Dernière modification le 2 déc. 2020

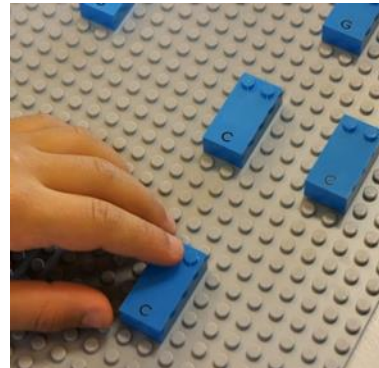





- 1  **What are LEGO Braille Bricks**
LEGO Braille Bricks 1:05:11
- 2  **Unboxing LEGO Braille Bricks**
LEGO Braille Bricks 3:14
- 3  **Pedagogical concept, Play-based Teaching Method**
LEGO Braille Bricks 51:20



LEGO Braille Bricks MOOC

Massive Open Online course





Facebook



LEGO Braille Bricks Community



LEGO Braille Bricks Community

🔒 Groupe Privé · 870 membres



+ Inviter

