

BVI literature review - labelling

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Data

1. [Yes or No] Is the paper about blindness and visually impaired students (BVI)?

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## .
## No Yes
## 8 192
```

2. [Accommodation or not] Does this paper describe accommodation for students with BVI?

```
## .
## Accommodation N/A Not Yes
## 147 26 21 6
```

3. [Description of the Tech] What is the accommodation/technology about?

| |
|---|
| x |
| Web-based Urdu Braille Translator and learning tool |
| Dual Braille Code Translator |
| BrailleBlocks for learning Braille |
| Braille slate tutor for mobile devices |
| Braille learning system with blocks and games |
| 3D models of linear equation graphs |
| Braille to speech application |
| Assistive devices for braille literacy |
| Bengali Braille embosser |
| Braille, bar code, MP3 for audio files |
| Braille and compressed speech materials |
| Braille codes with QR code technology |
| Braille and Audio Tactile performance (ATP) |
| Compact Braille Transput Communicator |
| Braille for oral health education |
| Assistive Braille Device with IoT |
| Audio, tactile, performance technique, Braille |
| Braille and oral health talk |
| Mobile Braille learning application |
| Mobile electronic Braille alphabet simulator |
| Braille pamphlets, NVDA software |
| Oral health education techniques |
| Braille text for oral health education |
| Tactile graphic books, Braille, audio file |
| Braille instructions, magnified tooth models, music CD |
| Deep learning, IoT, wearable device, web app, Android app |
| IoT-based AI-powered braille learning system |
| Pattern recognition and image analysis methods |
| Braille for equity and access |
| Tactile model of the Sun |
| Converting Sinhala Braille to readable Sinhala text |
| Modified audio-tactile performance with braille |
| Reading media for visually impaired adults |
| Smartphone app, Braille printer, Braille Spotdot embosser |
| Braille blocks with IR tags |
| Distance education portal for visually impaired |
| Audio Haptics for visually impaired training |
| Oral health education methods |
| Braille and audio instructions |
| Touchscreen-based Urdu Braille text entry application |
| Kinesthetic and textual material |
| Computer-based braille reading program |
| Automatic Braille transcribing tool |
| Tactile materials, Braille, cadaveric pieces |
| Machine vision for Braille recognition |
| Music-based brushing, Braille materials |
| Braille pattern identification system |
| Oral health education media |
| N/A |
| Braille and audio-centered textbooks |
| Braille transcriptions, adapted teaching material |
| Audio aid, Braille booklet, individualized training |
| Touch screen application |
| Digital library for educational material |

```

## Braille.Learning.Tools Assistive.Technologies Tactile.and.3D.Models
## 1 1 1 0
## 2 1 1 0
## 3 1 1 1
## 4 1 1 0
## 5 1 1 1
## 6 0 0 1
## Audio.and.Speech.Tools Educational.Resources Health.and.Oral.Hygiene
## 1 0 1 0
## 2 0 1 0
## 3 0 1 0
## 4 0 1 0
## 5 0 1 0
## 6 0 1 0
## ICT.and.Software.Solutions
## 1 1
## 2 1
## 3 0
## 4 1
## 5 0
## 6 0

```

Summary of Answer3

```

## Braille.Learning.Tools Assistive.Technologies
## 44 140
## Tactile.and.3D.Models Audio.and.Speech.Tools
## 32 46
## Educational.Resources Health.and.Oral.Hygiene
## 98 11
## ICT.and.Software.Solutions
## 84

```

4. [learning vs assessment and classroom vs large scale] Where is this accommodation used?

```

## [,1]
## Assessment 4
## Classroom 25
## Classroom learning 2
## Classroom, workplace 1
## Consultations 1
## Daily, educational, and professional tasks 1
## Distance-learning environment 1
## Distance education 1
## E-learning 1
## Hospital 1
## Learning 65
## Learning access 1
## Learning, classroom 6
## N/A 83

```

| | |
|---|---|
| ## Online learning | 1 |
| ## Outreach events | 1 |
| ## Physical education | 1 |
| ## Programming education | 1 |
| ## School physical education | 1 |
| ## Self-study tool | 1 |
| ## Teaching-learning and administrative processes | 1 |

5. Which grades or levels of education (e.g., elementary, middle school, high school, college, professional, post-graduate)?

| | |
|---|------|
| ## | [,1] |
| ## 0-21 years | 1 |
| ## 5-15 years | 2 |
| ## 6-18 years old | 1 |
| ## 7-12 years | 1 |
| ## 7-19 years | 1 |
| ## 9-16 years old | 1 |
| ## 9 to 17 years | 1 |
| ## Adult education | 1 |
| ## Children and adolescents | 1 |
| ## College | 9 |
| ## Different Teaching Levels | 1 |
| ## Elementary | 6 |
| ## Elementary to tertiary | 1 |
| ## Elementary, middle school | 2 |
| ## First grade | 1 |
| ## Grade R | 1 |
| ## High school | 5 |
| ## High school, college | 1 |
| ## Higher education | 10 |
| ## Higher Education | 2 |
| ## Middle and high school | 2 |
| ## Middle school | 4 |
| ## Middle school, high school | 2 |
| ## N/A | 124 |
| ## Post-graduate | 1 |
| ## Pre-high school | 1 |
| ## Pre-primary, primary, high school | 1 |
| ## Preschool | 2 |
| ## Preschool to 10th grade | 1 |
| ## Primary | 1 |
| ## Primary and secondary | 1 |
| ## Primary, lower secondary | 1 |
| ## Professional | 1 |
| ## Pupils, students, and interested persons | 1 |
| ## Second cycle educational institution | 1 |
| ## Secondary school | 3 |
| ## Tertiary education | 1 |
| ## Undergraduate | 1 |
| ## University | 1 |
| ## Young learners | 1 |

6. What's the sample size of the participants in the accomodation?

| ## | [,1] |
|---|------|
| ## 1 | 1 |
| ## 10 | 1 |
| ## 100 | 2 |
| ## 1062 | 1 |
| ## 11 | 2 |
| ## 110 | 1 |
| ## 12 | 1 |
| ## 12 expectant parents | 1 |
| ## 120 | 1 |
| ## 122 | 1 |
| ## 125 | 1 |
| ## 13 | 1 |
| ## 144 | 1 |
| ## 148 | 1 |
| ## 15 | 6 |
| ## 155 | 1 |
| ## 16 | 1 |
| ## 161 staff members | 1 |
| ## 165 | 1 |
| ## 17 | 1 |
| ## 176 | 1 |
| ## 180 | 1 |
| ## 189 | 1 |
| ## 191 | 1 |
| ## 199 | 1 |
| ## 20 | 5 |
| ## 200 | 1 |
| ## 22 | 1 |
| ## 225 blind/partially-sighted, 6 sighted | 1 |
| ## 24 | 1 |
| ## 2512 | 1 |
| ## 253 | 1 |
| ## 287 | 1 |
| ## 3 | 1 |
| ## 30 | 1 |
| ## 31 | 1 |
| ## 4 | 1 |
| ## 40 | 2 |
| ## 43 | 1 |
| ## 50 | 2 |
| ## 52 | 1 |
| ## 53 | 1 |
| ## 5638 cases | 1 |
| ## 60 | 1 |
| ## 65 | 1 |
| ## 69 | 1 |
| ## 7 | 1 |
| ## 74 | 1 |
| ## 75 | 1 |
| ## 8 | 1 |
| ## 87 | 1 |

| | |
|--------------------|-----|
| ## 9 | 1 |
| ## 90 | 1 |
| ## 91 | 1 |
| ## 96 | 1 |
| ## Eight | 1 |
| ## Eighteen | 1 |
| ## Five | 1 |
| ## Five interviews | 1 |
| ## Fourteen | 1 |
| ## N/A | 111 |
| ## Nine | 2 |
| ## Ninety | 1 |
| ## One | 2 |
| ## One student | 1 |
| ## Seventy | 1 |
| ## Six | 1 |
| ## Sixteen | 2 |
| ## Ten | 1 |
| ## Three | 3 |
| ## Twenty-one | 1 |
| ## Two groups | 1 |

7. What country and/or state is the assessment used in?

| ## | [,1] |
|---------------------|------|
| ## Australia | 1 |
| ## Austria | 1 |
| ## Bangladesh | 3 |
| ## Brazil | 3 |
| ## Brazil, Amapa | 1 |
| ## Canada, Ontario | 1 |
| ## Ceara | 1 |
| ## China | 1 |
| ## Colombia | 1 |
| ## CRPD nations | 1 |
| ## Cyprus | 1 |
| ## Czech Republic | 1 |
| ## Delhi, India | 1 |
| ## Denmark | 1 |
| ## Ecuador | 2 |
| ## England | 1 |
| ## Europe | 1 |
| ## France | 1 |
| ## Germany | 1 |
| ## Ghana | 1 |
| ## Ghana and Egypt | 1 |
| ## Greece | 3 |
| ## India | 5 |
| ## India, Karnataka | 1 |
| ## India, Pune | 1 |
| ## Indonesia | 2 |
| ## Iran | 2 |
| ## Japan | 3 |

| | |
|------------------------------------|-----|
| ## Kazakhstan | 1 |
| ## Kenya, Malawi, Tanzania, Uganda | 1 |
| ## Lesotho | 1 |
| ## N/A | 113 |
| ## Netherlands | 1 |
| ## Netherlands, Belgium | 1 |
| ## New Delhi | 1 |
| ## Nigeria | 1 |
| ## Nigeria, Lagos State | 1 |
| ## Norway | 2 |
| ## Oman | 1 |
| ## Pakistan | 5 |
| ## Philippines | 2 |
| ## Poland | 1 |
| ## Puerto Rico | 1 |
| ## Romania | 1 |
| ## South Africa | 2 |
| ## Spain | 1 |
| ## Sri Lanka | 2 |
| ## Sudan | 1 |
| ## Tanzania | 1 |
| ## Thailand | 1 |
| ## Transnational | 1 |
| ## Turkey | 7 |
| ## UK | 2 |
| ## United Kingdom | 2 |
| ## United States | 2 |
| ## Vietnam | 1 |

8. In which subject or area is this accommodation applied to?

| | |
|--------------------------------|------|
| ## | [,1] |
| ## Academic performance | 1 |
| ## Algorithm textbooks | 1 |
| ## Arabic Braille | 1 |
| ## Art and scientific diagrams | 1 |
| ## Art education | 1 |
| ## Astronomy | 2 |
| ## Basic alphabets and numbers | 1 |
| ## Basic Education | 1 |
| ## Biochemistry | 1 |
| ## Body movement | 1 |
| ## Braille | 1 |
| ## Braille education | 3 |
| ## Braille learning | 3 |
| ## Braille literacy | 2 |
| ## Braille Notation Writing | 1 |
| ## Braille reading | 3 |
| ## Braille to text conversion | 1 |
| ## Business graphics | 1 |
| ## Chemistry | 2 |
| ## Cognitive performance | 1 |
| ## Color education | 1 |

| | |
|-----------------------------------|----|
| ## Communication and literacy | 1 |
| ## Communication skills | 1 |
| ## Computer Science | 2 |
| ## Data visualization | 1 |
| ## Diabetes care and education | 1 |
| ## Education | 1 |
| ## Education material | 1 |
| ## Engineering | 1 |
| ## Engineering, IT courses | 1 |
| ## English as a foreign language | 1 |
| ## English as a Foreign Language | 1 |
| ## English language | 1 |
| ## English vocabulary | 1 |
| ## General education | 1 |
| ## Geography and history | 1 |
| ## Graphically intensive material | 1 |
| ## Handwriting | 1 |
| ## Human anatomy | 1 |
| ## Inclusive education | 1 |
| ## Inclusive play | 1 |
| ## Korean language | 1 |
| ## Life and work skills | 1 |
| ## Literacy | 2 |
| ## Many educational disciplines | 1 |
| ## Map exploration | 1 |
| ## Math | 2 |
| ## Mathematics | 8 |
| ## Memory and language | 1 |
| ## Mobility skills | 1 |
| ## Multiple subjects | 2 |
| ## Music | 5 |
| ## N/A | 66 |
| ## Oral health | 14 |
| ## Oral health education | 4 |
| ## Oral hygiene | 7 |
| ## Orientation and Mobility | 1 |
| ## Physical education | 11 |
| ## Physical Education | 1 |
| ## Physics | 1 |
| ## Pre-reading skills | 1 |
| ## Programming | 3 |
| ## Programming education | 1 |
| ## Reading | 1 |
| ## Russian language | 1 |
| ## Science | 2 |
| ## Science and mathematics | 1 |
| ## Scientific studies | 1 |
| ## Sex education | 1 |
| ## Social adjustment | 1 |
| ## Special education | 2 |
| ## Spelling | 1 |
| ## STEAM | 1 |
| ## STEM education | 1 |
| ## Urdu Braille | 1 |

9. Is the accommodation actually being used? By how many people?

| | |
|--|------|
| ## | [,1] |
| ## N/A | 182 |
| ## Yes | 3 |
| ## Yes, 12 expectant parents | 1 |
| ## Yes, 140 staff members | 1 |
| ## Yes, 20 people | 1 |
| ## Yes, 287 children | 1 |
| ## Yes, 70% of students | 1 |
| ## Yes, a few teachers | 1 |
| ## Yes, increasing usage | 1 |
| ## Yes, N/A | 3 |
| ## Yes, one person | 2 |
| ## Yes, one special school | 1 |
| ## Yes, three people | 1 |
| ## Yes, visually impaired persons in Lagos | 1 |