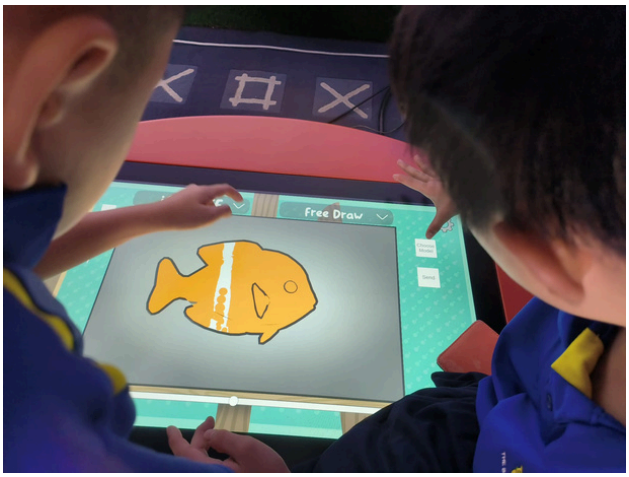
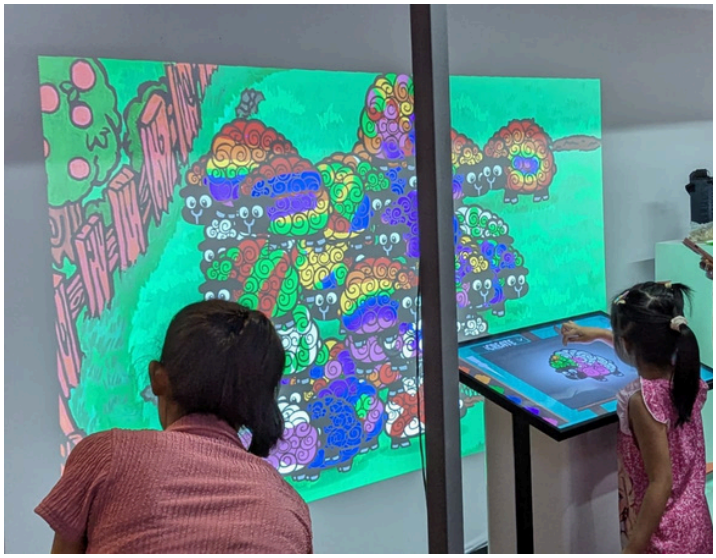
iCREATE Interactive Drawing/Colouring Station



CREATIVE EXPRESSION

Colour your very own scene or subject that is unique to one's personality or mood.



RELAXING SPACE

An interactive colouring book that brings what you design to life. Stress-free, therapeutic design to encourage self-discovery.



TEAMWORK

Co-operate with one another in a shared experience and bring creative minds together.

DIGITALDREAM

KEY OUTCOMES AND BENEFITS

1. Creative Expression & Emotional Regulation

iCREATE provides a low-pressure, non-verbal outlet for self-expression, particularly valuable for learners with limited verbal communication, or are simply shy.

Outcomes

- Increased self-expression through colour and design choices
- Improved emotional regulation and reduced anxiety through peaceful background scenes
- Development of personal identity and creative confidence

Why it works

- Open-ended tools (e.g. Free Draw) allow autonomy without “right or wrong”
- Visual feedback (seeing artwork projected live) reinforced emotional connection



KEY OUTCOMES AND BENEFITS

2. Cognitive Development & Structured Thinking

iCREATE operates on a “cause-and-effect” design, showcasing changes to participants and allowing them to interact directly with the subject.

Outcomes

- Improved attention and sustained focus
- Enhanced understanding of rules, patterns and sequences
- Strengthened problem-solving and decision-making skills



Example:

Colouring a background → Colour a fish → Sending fish out → Watch as fish swims around in custom background

This sequence reinforces **Action → Outcome linkage** along with **Object Association**

KEY OUTCOMES AND BENEFITS

3. Visual Processing & Colour Recognition

iCREATE strengthens processing skills through interactive design tasks. With multiple displays that are fully interactive, users are encouraged to practice what they learn.

Outcomes

- Improved colour recognition and differentiation
- Enhanced visual scanning and spatial awareness
- Better understanding of colours and shapes

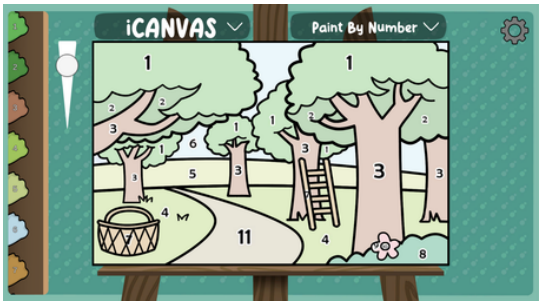
Why it works

- iCREATE bridges 2D background (Underwater) with a 3D subject (e.g. Fish), encouraging high-level thinking. This promotes storytelling through symbolic and abstract thinking, developing creative exploration skills.

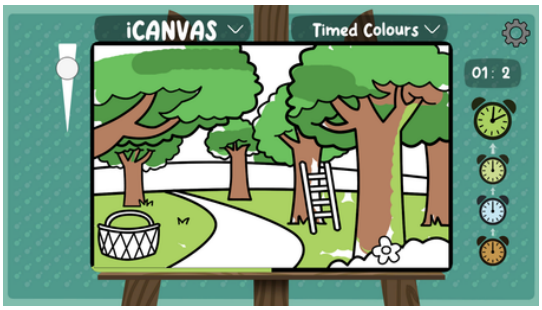
"Why can't trees be purple?"



Free Draw: Encourages imagination and divergent thinking



Paint by Numbers: Builds rule-following, matching, structured reasoning and even numeracy



Timed Colouring: Trains cognitive flexibility and quick thinking under changing conditions

KEY OUTCOMES AND BENEFITS

4. Social Interaction & Collaborative Play

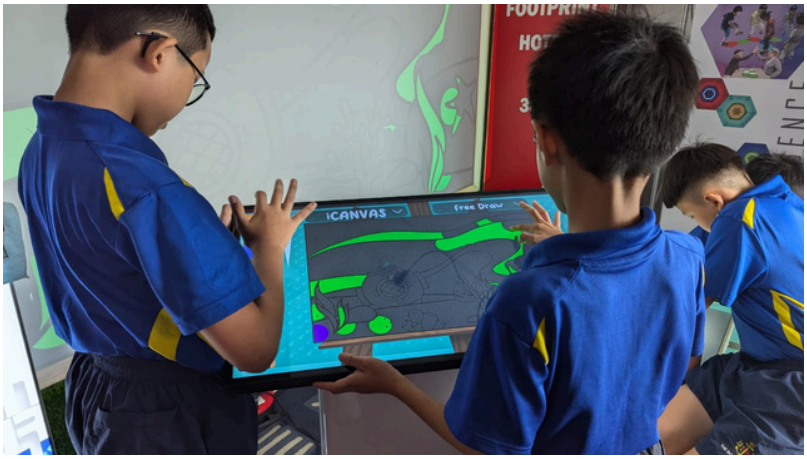
With multiple kiosks and a shared projection, iCREATE naturally promotes shared experiences through collaborative play.

Outcomes

- Improved social engagement and peer interaction via participatory acivities
- Foster collaboration and communication through shared creative environment
- Opportunities for turn-taking
- Cross-generational collaboration







Primary Source (Social Interaction via Digital Technologies):

Jiang, Y., & Cohen, I. L. (2026). Digital technologies for improving social communication in children with autism spectrum disorder: A systematic review. Computers in Human Behavior Reports, 14, 100397. https://doi.org/10.1016/j.chbr.2025.100397

Supporting Source (Digital Art & Social Interaction):

Lee, J., Park, S., & Kim, H. (2025). Enhancing social engagement in adolescents with autism through participatory digital art programs. Journal of Autism and Developmental Disorders. Advance online publication. https://doi.org/10.1007/s10803-025-06950-5

OTHER BENEFITS FOR CONSIDERATION

User-Centred Design

- No artistic talent required - Colouring spaces are designed such that anyone of any skill level can participate
- Intuitive UI/UX to allow educators to facilitate sessions easily
- No wearable devices - Keeping sensory-sensitive users and hygiene concerns in mind

Quantifiable Progress

Structured experience that is easy to pick up and play, with observable progress like:

- Engagement duration (Attention span)
- Completion rates
- Reaction Time
- Attention Span
- Hand-Eye coordination
- Independent Activity

Local Support

Digital Dream is a Singaporean company providing maintenance and support directly to our clients. We design and build all products in-house.

With a team of designers, artists and programmers, all content, software and hardware servicing is only a phone-call away.



DIGITALDREAM

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