



Glow and Go Bot

(EY10564)

The staff and children at Brampton Primary School enjoy exploring and learning with Glow and Go Bot. Read about how they use Glow and Go Bot and the impact they are seeing on the children's learning.



“The bright lights and the design of the robot mean that it is a very motivating resource – everyone is keen to have a turn!”

Why we chose Glow and Go Bot?

We are an Early Years Unit based in a fairly large primary school in Chesterfield, Derbyshire. The Glow and Go Bot was purchased to support the use of positional and directional language in addition to giving children an early taste of programming in preparation for the Computing curriculum starting in Year 1. We also felt that the Glow and Go Bot would be a really motivating resource to support the development of key skills in other curriculum areas.

Ways we use Glow and Go Bot

Initially, we encouraged the children to explore the Glow and Go Bot on the dance setting. We turned out the classroom lights and the children enjoyed watching the lights, moving to the music, and dancing along! This was particularly popular with our children with additional needs – especially those that are visually sensory seeking. At our school, we also have an enhanced resource unit for children with Autism. The robot is used within the sensory den and really helps to meet the sensory needs of some of our children.

Within the Early Years classroom, we also experimented with the movement setting. This setting works very much like a Bee-Bot, but the controls are easier for young children to understand. Children can program the robot to move forwards, backwards, left and right. The Glow and Go Bot doesn't have an option to rotate which is something that our children in EYFS have found difficult with the Bee-Bot in the past.

The children within the setting were quickly able to program the Glow and Go Bot to travel in a sequence of movements to a set space. We found that our alphabet floor rug was a perfect place for the children to direct the robot as they could choose an alphabet square to aim for before programming the Glow and Go Bot accordingly. The programming of the Glow and Go Bot was a really useful way for children to develop their use of positional and directional language as well as teamwork skills. We then extended this oral use of language and started to write a sequence of instructions for the Glow and Go Bot using directional arrows.

Setting three was a particular hit with the children! This setting allows children to create sequences of music. The Glow and Go Bot plays a different tune depending on the coloured button that has been pressed. Children can press a sequence of buttons to create their own piece of music. Each button also has a shape printed onto it. This allows us to record the sequence of music onto a page so that we can play it again as well as supporting shape recognition. Completing this activity is a great way to develop early music composition skills as well as work on repeating patterns.

Continued on next page...

TESTIMONIALS



CONT.

We enjoy using the Glow and Go Bot as a motivating resource within lots of different curriculum areas. Some of the ways in which we have used the resource include using the Glow and Go Bot to land on chalk numbers or shapes in the playground, creating treasure maps for the robot, and building tracks for the robot to navigate using a range of different construction sets - the possibilities are endless.

The impact Glow and Go Bot has had

The Glow and Go Bot is a great way for children to develop their problem-solving skills as well as critical thinking and perseverance! In addition to this, it is perfect for developing mathematical language, attention and listening, as well as early programming and music composition skills. Even after engaging with the Glow and Go Bot for a short time, we could see a difference in the children's ability to program and problem-solve in order to achieve a desired outcome.

The bright lights and the design of the robot mean that it is a very motivating resource – everyone is keen to have a turn! As such, this makes it a great tool to engage children in other areas of learning that they might not normally choose to take part in. This was particularly the case with mark-making. The Glow and Go Bot was great for giving mark-making activities a real purpose!



- Many thanks to the staff and children at Brampton Primary School for sharing their thoughts with us.



Glow and Go Bot

(EY10564)



The staff and Nursery children at Windale Primary School were Terrific Testers and trialled Glow and Go Bot. Read about how they introduced Glow and Go Bot into their setting and what they learned.

One of the ways we have used Glow and Go Bot in the Nursery at Windale Primary School.

Having introduced the Glow and Go Bot to the children previously, we set the children a challenge to see if they could direct the robot towards a given shape on our circle carpet mat. The children had to estimate how many times they needed to press the correct direction button to get it to land on the named shape. The activity was done in small groups of 3 to 4 children, but more asked to join in.

Areas of learning that we focused upon

We focused primarily on communication and language for key vocabulary, PSED for turn-taking and sharing, but also Maths for the use of directional language e.g., forwards, backwards etc.

We also introduced the Glow Bot to some of our children with SEND and they explored it across a period of time.

Our observations

Having modelled the activity for each group of children, they then took it in turns to program the Glow and Go Bot to travel to a given shape on the carpet. The children were able to start to use directional language e.g., forwards, sideways, and backwards.

Some children engaged with the activity quickly and were able to make sensible estimations as to how many times the corresponding button needed to be pressed in order to get it to the desired carpet shape. Some other children preferred to just make the Glow and Go Bot move one space at a time, in a more controlled way, to ensure they got it right.

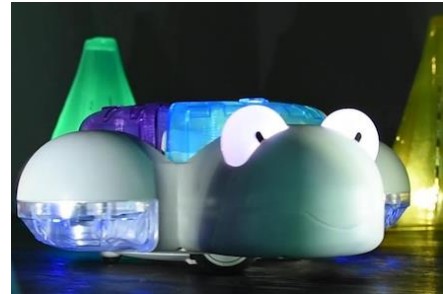
Child A - "When you press the arrow it goes that way" "I want it to go backwards" "Press the star and it moves".

Child B - "I want it to go to the purple circle, 3 times forward"

Other children were able to demonstrate their counting skills but counting out loud the number of times they pressed the button and then again to count the number of spaces the Glow and Go Bot moved.

With our SEND children they initially interacted with the Glow and Go Bot on a 1:1 basis with an adult. We modelled the 'my turn', 'your turn' vocabulary to encourage turn-taking. Over a period of time, the child was more able to wait her turn, so we introduced her to taking turns in a small group of 3 children.

Continued on next page...



CONT.

Again, using the 'child's turn, then your turn' model, she was more patient when waiting her turn. This linked really well to her EHCP targets for interacting with others during a similar activity. Through exploring the Glow and Go Bot independently, the child also worked out how to make the Glow and Go Bot dance and responded by dancing along to the music. The child also tolerated another child coming and dancing alongside her and there was evidence of eye contact with the other child.

Our other SEND child really enjoyed the setting that just played the sounds and lit up. He was able to press the buttons independently to make the sounds he liked.

Overall, the Glow and Go Bot is enjoyed by all children but has the biggest impact on our SEND children and our older, higher-ability children (moving onto early programming skills).

Some other ways we have used Glow and Go Bot

- Early Programming Skills – cause and effect
- Turning lights off and following it in the dark.
- Dancing with the Glow and Go Bot – copying its moves.
- Putting an object in the middle of the circle- who can get the Glow and Go Bot closest to the object?
- Playing a game of 'find the sound/colour'- can the children remember which button made a certain sound/light up a certain colour?
- Programming a specific planned route- mini obstacle course but having areas that have to be avoided e.g. a swamp.
- Designing a home for the Bot.



- Many thanks to the staff and Nursery children at Windale Primary School (United Learning) for sharing their thoughts with us.



Glow and Go Bot

(EY10564)

Children at Think for the Future (TFTF) Tots Nursery love learning with the Glow and Go Bot. Read on to find out their intent for using the Glow and Go Bot, how they implemented it and the impact it has on learning.



When reflecting on how Glow and Go Bot has been used in their setting, Ellie Fox, Nursery Director, has broken this down into Intent, Implementation and Impact.

INTENT:

In line with our commitment to incorporating technology into the curriculum, TFTF Tots decided to introduce the Early Technology Light-Up Glow and Go Bot into the setting to enhance the children's understanding of technology. This case study explores the implementation of the product and its impact on the children's learning outcomes.

IMPLEMENTATION:

The nursery staff at TFTF Tots carefully planned the introduction of the Light-Up Glow and Go Bot to ensure a smooth integration into the curriculum. The resource was initially introduced in a slow and gradual manner, allowing the children to become familiar with its features and functionalities. The staff started by demonstrating the different modes of the bot, such as its ability to move forward, backward, and turn.

To make the learning experience more engaging, the staff incorporated various props and activities. For instance, they used tape to create routes for the bot to follow, encouraging the children to understand and follow directions. This activity not only enhanced the children's understanding of direction vocabulary but also improved their critical thinking and problem-solving skills.

IMPACT:

The introduction of the Light-Up Glow and Go Bot had a significant impact on the children's learning outcomes at TFTF Tots. The resource facilitated the development of technology understanding among the children, as they were able to explore and interact with a technological device in a safe and controlled environment.

The use of the bot also had a positive impact on the children's music and movement skills. The nursery staff incorporated music into the activities, encouraging the children to move and dance along with the bot. This not only made the learning experience enjoyable but also helped the children develop their coordination and rhythm.

Continued on next page...



TESTIMONIALS



CONT.



Furthermore, the Light-Up Glow and Go Bot aided in colour identification. The bot's vibrant lights and different coloured buttons allowed the children to associate colours with specific actions or functions. This activity helped improve their colour recognition skills and enhanced their ability to differentiate between various hues.

Moreover, the introduction of the bot encouraged critical thinking and problem-solving skills among the children. As they followed the routes created with coloured tape, they had to analyse and strategise their movements to ensure the bot followed the correct path. This activity promoted logical reasoning and problem-solving abilities among the children.

IN CONCLUSION:

The implementation of the Early Technology Light-Up Glow and Go Bot at TFTF Tots proved to be highly beneficial in teaching technology to young children. The slow introduction, coupled with the use of props and activities, enhanced the children's understanding of technology, direction vocabulary, music and movement, colour identification, critical thinking, and problem-solving skills.



Many thanks to Ellie Fox, Nursery Director at Think for the Future Tots Nursery for sharing her thoughts with us.