matatalab

# Matatalab Edu Activity/Lesson Plan:

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## Classroom Key Information

Content-Related:

Computer Science☑ Math☑ Art☐ Music☐

Science☐ ELA☐ Social Study☑ Other _____

Time: 20 minutes Student Age: Reception

Complexity: ★☐ ★★☐ ★★★☑ ★★★★☐ ★★★★★☐

*( ★stands for the easiest )*

## Activity/Lesson Key Information

**Project Name:** Positional and directional language

**Big Idea:** To create a city in which your Tale-Bot Pro can travel through to reach certain destinations.

### Learning Outcomes:

- To use positional and directional language.
- To use simple coding for the Tale-Bot Pro to reach a chosen location.

### Key Vocabulary:

forwards, backwards, left, right, turn, on, under, over, through, next to

### Prior Knowledge:

Children will know how to use the functions of the Tale-Bot Pro prior to this activity.

# Matatalab Products & Supplementary Materials

Coding Set☐ Music Add-On☐ Artist Add-On☐ Pro Set☐

Animation Add-On☐ Sensor Add-On☐ Matatalab Lite☐

MATATA Map☐ Tale-Bot Pro☑

### Supplementary Materials

Construction toys, wooden blocks, small world toys

# Detailed Activity/Lesson Plans

*Matatalab Edu classic lesson*

| | Instructions step by step | Time |
|---|---|---|
| Lead in & Guided Activity | Children sitting in a circle, with the Tale-Bot Pro in the middle of the mat.<br>Provide different objects or pictures for positional and directional language.<br><br>Activity 1:<br>Explain to children that we are going to practise using our positional and directional language. E.g. Tale-Bot Pro hiding behind a tree.<br><br>Tale-Bot Pro under a table.<br>Tale-Bot Pro in a box.<br>Tale-Bot Pro on a bridge.<br>Ask children place Tale-Bot Pro and then say the positional language.<br><br>Activity 2:<br>Now, we are going to use our directional language. (Use Tale-Bot Pro map or own map)<br>We are going to code our Tale-Bot Pro to move to a chosen location.<br>I want the Tale-Bot Pro to go to the bridge. Talk about what instructions we need to give the bot the reach the destination.<br>E.g. Forward 2 spaces, under the bridge, turn right, forward 2 spaces.<br>When the Tale-Bot Pro reaches the location, demonstrate the language. The Tale-Bot Pro is next to the bridge. | |
| Independent Activity | Explain to children, we are going to create a mini city for our Tale-Bot Pro to travel through.<br>Demonstrate to children using the wooden blocks. Create a city using the wooden blocks and place small world items around the city. E.g. car, bridge, animals.<br>Model to children coding the Tale-Bot Pro to move in the made city. Use instructional and positional language.<br><br>Give directions to children to move the Tale-Bot Pro.<br>e.g. Move the Tale-Bot Pro to the red car. Give the instructions to a child to complete.<br>Move forward 2 places, turn right, move forward one.<br><br>Children to work in partners or a group.<br><br>Children to work in pairs/ group to create a mini city out of the wooden blocks.<br>Partner 1 – Choose a location for the Tale-Bot Pro to move to. Give instructions using the key vocabulary.<br>Partner 2 – Follow directions. | |
| Feedback & Extension | For the extension, children can record their instructions and directions on the whiteboard for a friend to follow. | |

# Essential Questions:

- Where is the Tale-Bot Pro ?
- How many spaces does the Tale-Bot Pro need to move?
- Which direction does the Tale-Bot Pro need to go?