



CURRICULUM FOR Early S.T.E.M.

Developing Spatial Intelligence - Levels 1-3

Building with **brain blox** *let's build!* cards

Skills & Concepts they will LEARN:

- Visualization of three-dimensional objects
- Ability to perceive 3D from a 2D image
- Manipulation of spatial information
- Development of spatial intelligence
- Fine motor skills (Dexterity)
- Hand-eye coordination
- Linear thinking
- Early Math & Reading concepts

What they will NEED:

- 50 Brain Blox Building Planks
- Brain Blox *let's build!* cards, Levels 1-3
(find at www.mybrainblox.com/pages/free-resources)

What they will DO:

Beginning with Level 1, invite the child to choose a *let's build!* card, look at the picture and re-create what they see!

Re-creating what they see on a 2-D card in the 3-D world is a wonderful practice for developing spatial intelligence. To enhance their practice further, follow the next section:



What YOU can do:

- After each card is complete, ask the child some questions about their creation to encourage analytical thinking (if you have a child who is already reading, you can print the questions out so they can read and answer them in writing).
 1. Did you find this build to be easy or challenging?
 2. Can you tell me the steps you took to complete this build? (The child may answer as simply as “I just built it” but encourage them to recount each step they took. You can give them a little help along the way if they are having a hard time. *(For example: Step 1: I chose a card, Step 2: I read the title, Step 3: I thought it looked easy/challenging, Step 4: I grabbed a plank, Step 5: I started on the left side and kept building to the right, Step 6: Once I finished, I looked back at the card to see if I got it right!)*
 3. Did you complete this build on the first try or did you face any challenges that required you to start over?

At the end, offer the child a big high-five or handshake to congratulate them on their amazing spatial intelligence! 😊

*** Please visit <https://mybrainblox.com/blogs/news/spatial-thinking-empowering-children-to-succeed-in-stem> for more information on spatial intelligence.