Opportunities for:

Playing and exploring
Engaging in open-ended activity
Pretending objects are things from their own experience

Active learning
Achieving what they set out to do after re-hearsal.
Creating their own plan and idea.
Paying attention to detail.
Bouncing back after difficulties

Creating and thinking critically
Thinking of their own ideas.
Solving problems if things go wrong.
Trying again after evaluating.

Architects and Construction

Autumn Term 2

K'NEX and LEGO

Enhancements:
Clipboards, pencils, tape measures, K'NEX & images of completed K'NEX models, LEGO & images of completed LEGO.

What are we looking for?

NC Year 1
Select from and use a range of tools and equipment to perform practical tasks.
Build structures, exploring how they can be made stronger, stiffer and more stable.
Compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/ half].

NC Year 2
Design purposeful, functional, appealing products for themselves and other users.
Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups.
Build structures, exploring how they can be made stronger, stiffer and more stable.
Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.
Evaluate ideas and products against design criteria.

Learning Potential:

Dexterity and fine motor skills
Shape and measure
Celebrating independence
Communicating ideas
Playing imaginatively
Drawing designs

Vocabulary:
Click
Join
Construct
Build
Design
Connect
Secure
Stable
Connectors
Rods
Clips
Fix
Push

Supporting and Extending

How could you make it stronger?
What would happen if?
What is your favourite part?
Have you tried…?
How does it work?
Could you show someone else how you did it?
Which is the thickest/thinnest?
What else could you use to make your creation even better?
What would you do differently next time?