

BLOCK ROCKET LAUNCH PAD

ASSEMBLY GUIDE · Techtelligence- Elecfraks

54 STEPS

DESIGN BRIEF

OBJECTIVE

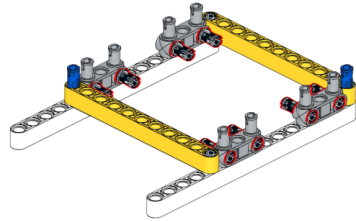
Based on the form and composition of existing rocket launchers, open discussion and rationalise the design of a block rocket launch pad.

DESIGN PRINCIPLES

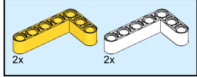
- 01. Structural Stability** Rigid base frame with vertical tower supports and cross-bracing to withstand launch forces.
- 02. Modular Block Design** Block-based Techtelligence- Elecfreaks construction enables systematic assembly and easy reconfiguration.
- 03. Component Integration** Precision pins, axles, and beams ensure accurate alignment across all sub-assemblies.
- 04. Scalable Architecture** Standardised connector grid allows the pad to be scaled up or adapted for different payloads.

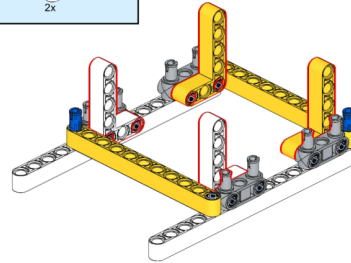
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5  8x

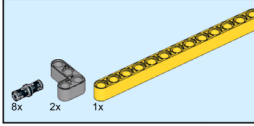


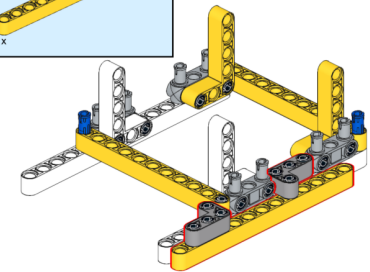
STEP 5

6  2x



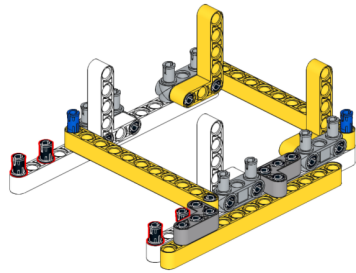
STEP 6

7  8x 2x 1x

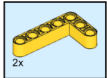


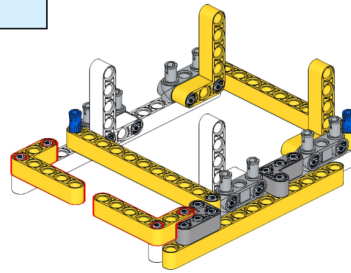
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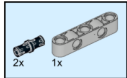


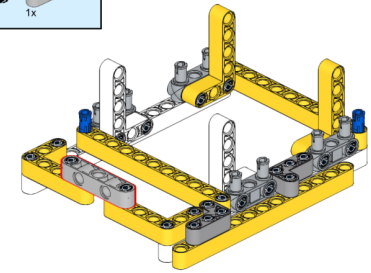
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9  2x



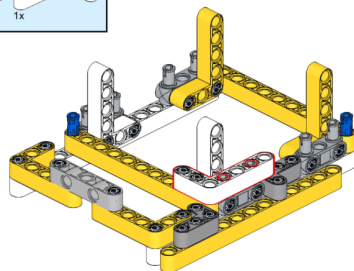
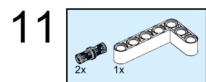
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10  2x 1x

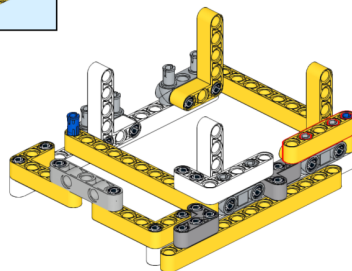
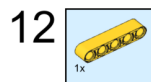


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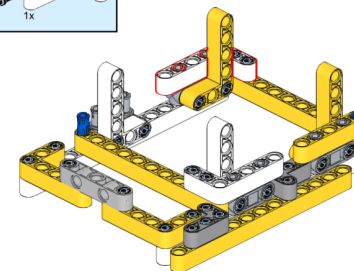
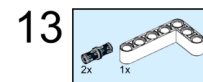
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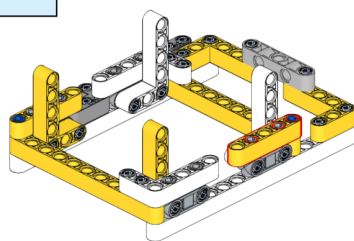
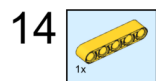
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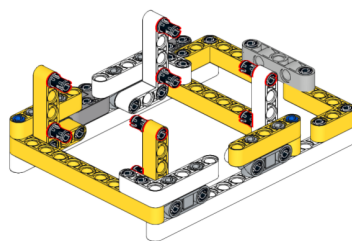
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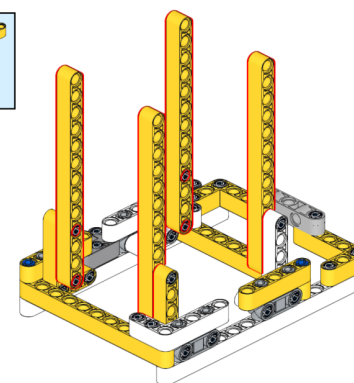
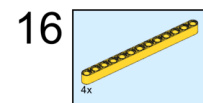
STEP 13



STEP 14



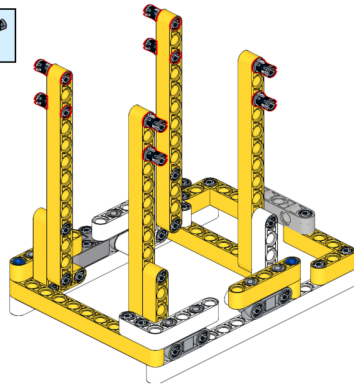
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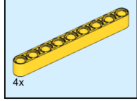
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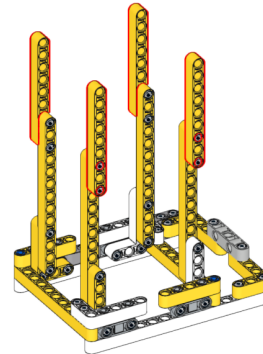
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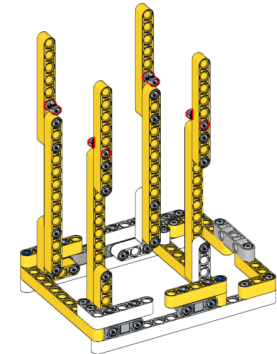
STEP 17

18  4x

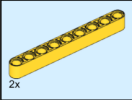


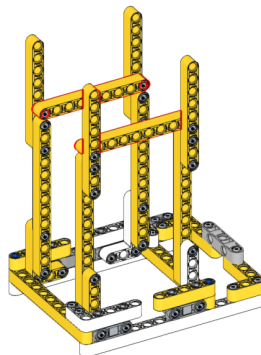
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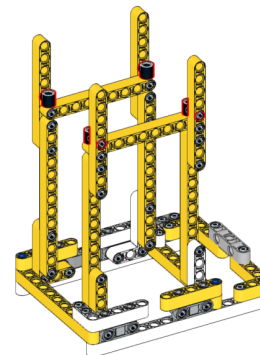
STEP 19

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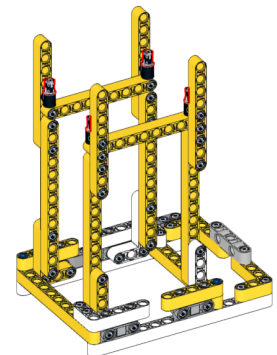
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21  4x



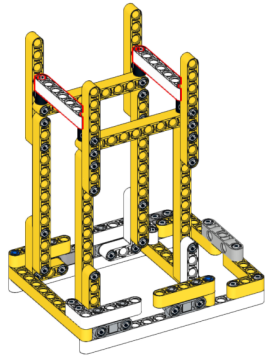
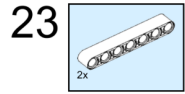
STEP 21

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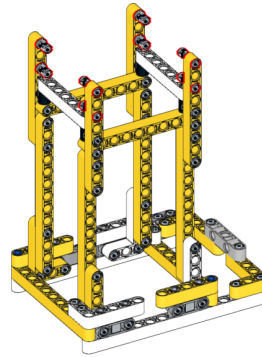
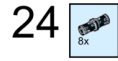


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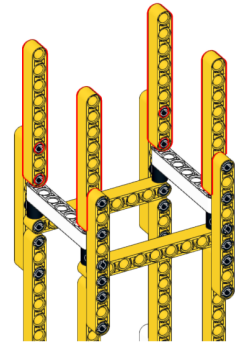
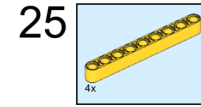
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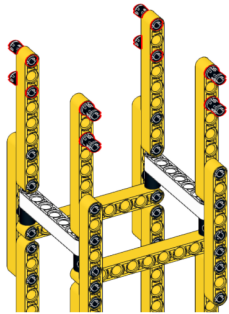
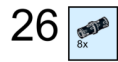
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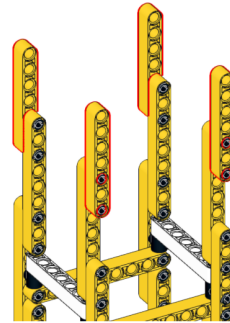
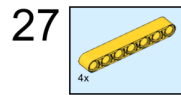
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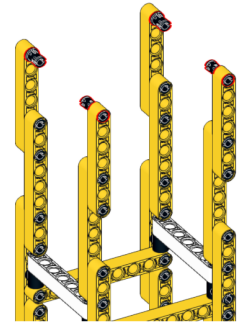
STEP 25



STEP 26



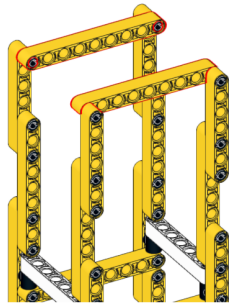
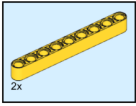
STEP 27



STEP 28

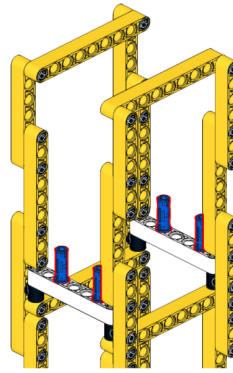
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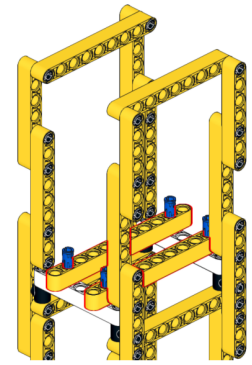
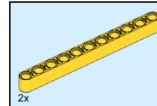
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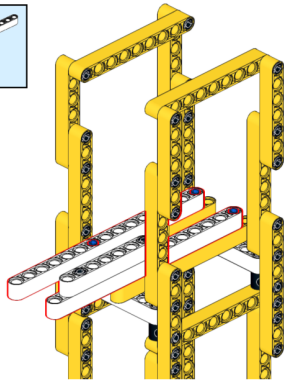
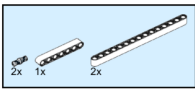
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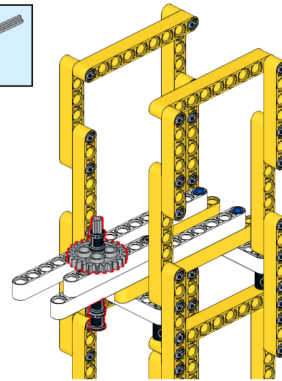
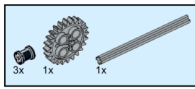
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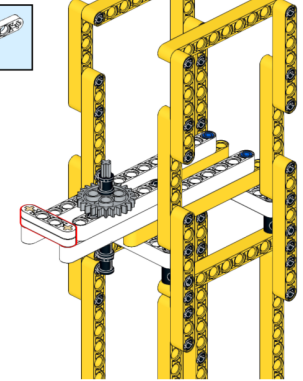
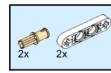
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33



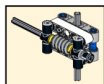
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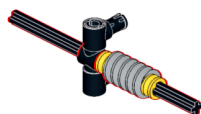
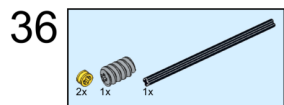


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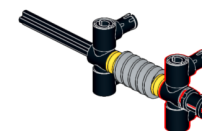
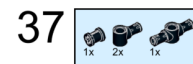
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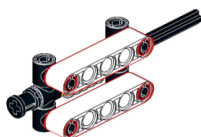
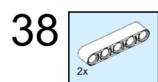
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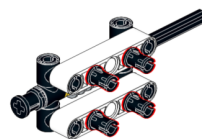
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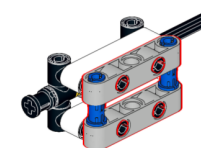
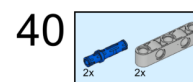
STEP 37



STEP 38



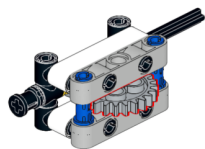
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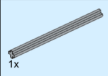
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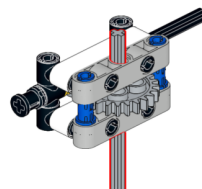
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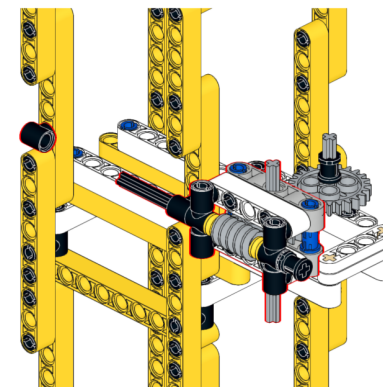
STEP 41

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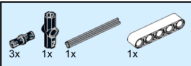


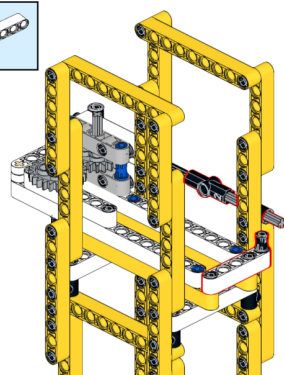
STEP 42

43 




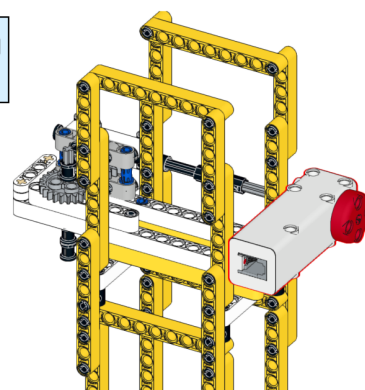
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44 

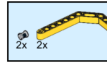


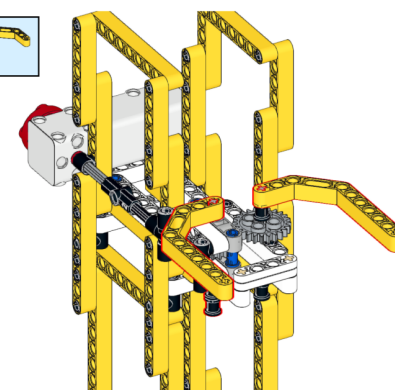
STEP 44

45 




STEP 45

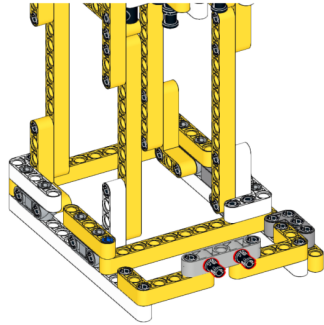
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
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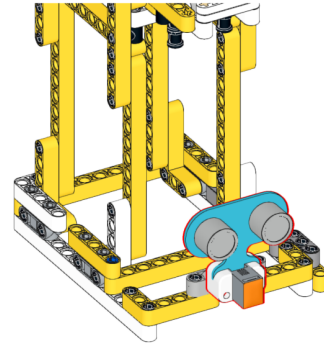
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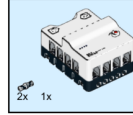


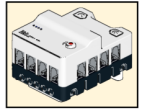
STEP 47

48 

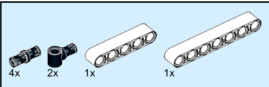


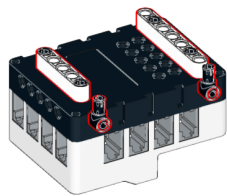
STEP 48

49 



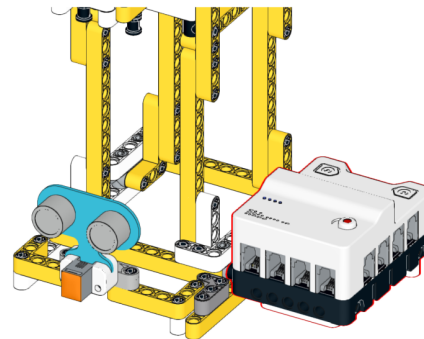
STEP 49

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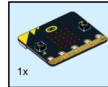


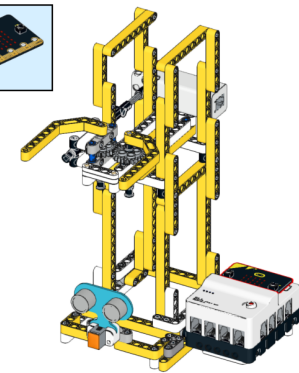
STEP 50

51



STEP 51

52 



STEP 52