

Model 9 Tower



DESIGN TASK



Date

Name

Class

Build the tower according to the instructions, but leave out the gray-silver static struts for now.

The tower initially consists only of the platform and the legs.

What are the shortcomings of a tower built in this way?

THEMATIC TASK

Complete the tower with the struts according to the building instructions.

Test which of the observed defects are remedied by the static struts due to their stiffening effect.

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EXPERIMENTAL TASK

There is a special case with the diagonal bracing that is not immediately apparent: Align the diagonal struts on two opposite sides so that they run parallel to the struts on the other two sides.

This creates a spiral of struts. What property does the tower lose as a result?

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Tip:

Hold the tower in both hands and test how the model can be deformed (but please do not apply so much force that the material is damaged).



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