

Ferris Wheel Assembly IPS Lab

Objective: Build Ferris Wheel from K'nex instructions and answer questions about Ferris Wheels.

Name: _____

Name: _____

Instructions in color can be found on the web page
<https://www.u-46.org/Page/13237>

- Click "Speak IKEA Lab - Ferris Wheel"

- Click "K'Nex Ferris Wheel Assembly Instructions"

52443 Alternate Ferris Wheel



Procedure:

Print out instructions in black and white. (print on front and back of paper, 9 sheets will be needed) Use the website for interpretation of the colors of the individual pieces.

Follow instructions from K'nex web site to assemble K'nex Ferris Wheel.

Use black and white printed copy of the instructions to keep track of current production. As a step is completed check off the step is completed. Person completing the step needs to sign the instruction sheet for steps that they have completed.

Complete engineering daily log:

- list daily assembly status
 - list labor used each day
 - listing tasks as completed (1 to 28)
 - any current questions about assembly
 - list any out of the ordinary activities
-
- leave space under questions for answers to be added as questions are answered
 - take pictures and/or video of final project with people involved in the build.

Ferris Wheel Assembly Lab Questions

When and where was the first Ferris Wheel built?

Who designed the first Ferris Wheel and when and where did this person live?

When did Google honor this person with a Google Doodle?

Where is the largest Ferris Wheel in the world. What is the mathematical formula for this Ferris Wheel.

Project Rubric

30% for engineering log book

30% for answers to questions

40% for accuracy of build compared to instructions

The largest Ferris wheel in the World is _____

The largest Ferris wheel in the World is located in _____

ft tall

ft diameter

ft radius

