

Exploring Nano & Society— Space Elevator

*What if we could make an
elevator to space?*



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NanoDays
The Biggest Event
for the
Smallest Science!

Exploring Nano & Society—Space Elevator

Try this!

1. What if it were possible to take an elevator into space? Imagine what our world would be like.
2. Draw a picture of the future world you're imagining. What would we need in space? What kinds of plans would we have to make?

Think about it...

How would the space elevator work? What would power it?

Who would get to use the space elevator? Where would you get on?

When you got up in space, what would be there? What would you need to bring with you?

What's going on?

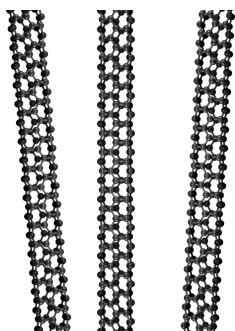
It's fun to imagine what our lives might be like in the future—and it's also important. We have the things we have today because in the past, people thought about the kind of world they wanted and invented technologies to help make their dreams real.

Researchers really are working on creating a space elevator, including scientists at NASA and Google. They think that new materials like carbon nanotubes will make this technology possible.

If these scientists are successful, someday it might be cheap and easy to bring people and materials into space. And if it were possible for ordinary people to go into space, that could mean big changes to our lives.

We all need to think about the kind of world we want in the future, and begin planning for it. Do you think exploring and developing space is important? If so, what kind of society should we create there? Or do you think we should spend our time and money on something else, instead of a space elevator?

How is this nano?



Carbon nanotubes

Technologies and society influence each other. People's values shape how nanotechnologies are developed and adopted.

Researchers think about the future world they would like to live in when they create new technologies. And when people decide to use new technologies, those technologies can change their lives in ways that are big and small.

New nanomaterials are making new technologies possible. For example, super strong, lightweight carbon nanotubes might allow us to make a cable that can support a space elevator. The space elevator is an old dream: people have been imagining the possibilities of taking an elevator into space since at least 1895!



Illustration of a space elevator by NASA

