

SPACE & TIME

1. When an object rotates, its friction swirls the air or liquid around it in differing degrees.
2. All objects with mass generate gravitational fields.
3. Physicist Albert Einstein has theorized that gravity inseparably warps height, width, depth, and time. That is, gravity warps **SPACE-TIME**.
4. If he's correct, then the gravitational field of any rotating object swirls not only the air or liquid around it but also the space-time around it.
5. For example, imperceptably close to the surface of an object rolling in the palm of your hand, this warping implies that its space is being bent and that its time is elapsing differently.

Einstein is correct!

6. *Is everything always relative, or is there an absolute space somewhere? An absolute time somewhere?*
7. *Does time have a physical location? Is it plural?*
8. *How similar is the relationship between space and time to the relationship between matter and energy?*

"NASA's gravity probe B confirms two Einstein space-time theories" (2011). *Science Daily*. <sciencedaily.com>