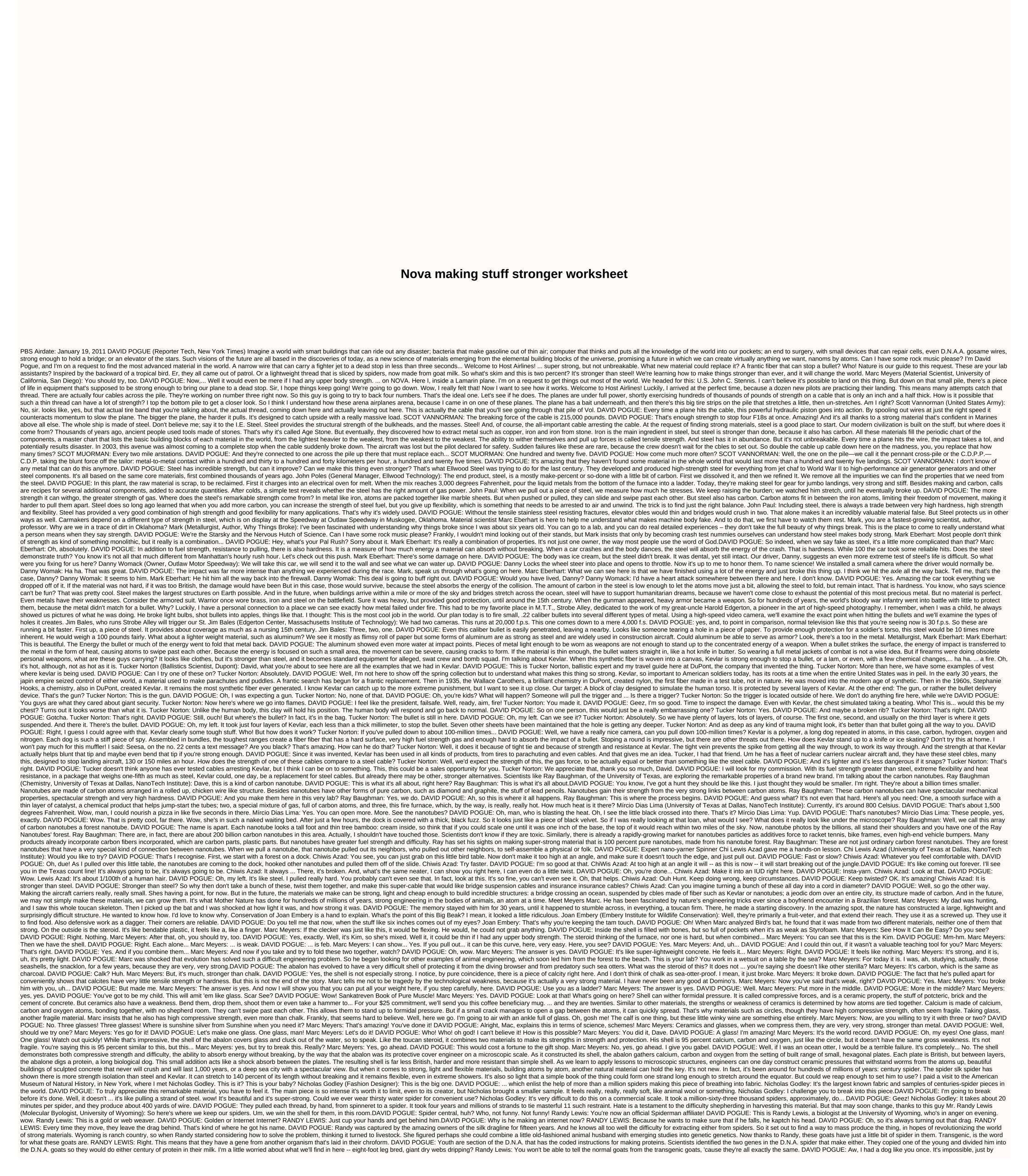
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Kap, to say these bred from non-spy brothers, but, scientifically, are very valid. yes, you are special. You have been genetically modified. How does it feel to be genetically modified? Huh? Only 50 percent of Randy's goats will inherit the necessary youth, and women born with him will produce either spider protein in their milk. And that's what I've come all this way to see for myself. Can I... try it? Randy Lewis: You certainly welcome them. We normally use the electric, just because it's a whole lot faster, but, um, you're about to find out here. DAVID POGUE: So, skim this one and this is two percent? RANDY LEWIS: Well, in this case, they're both either century spider. You can choose either one of you DAVID POGUE: Wow. What percentage of this milk is this spider-spider-spider-spider-spider need to both either century spider. You can choose either one of you DAVID POGUE: Wow. What percentage of this milk is this spider-spider-spider-spider need to both either century spider. You can choose either one of you DAVID POGUE: Wow. What percentage of this milk is this spider-spider-spider-spider-spider-spider need to both either century spider. relatively low, so we're talking about... um... maybe one to two per cent, but we'll take two percent, at this point in time. DAVID POGUE: Next start the painstaking process of coaxing the silk protein out of the milk. Randy Lewis: So we take the letter that we collect from the farm, we pumped that on this column, which has a whole bunch of very small tubes in it. DAVID POGUE: Right. Randy Lewis: Tube has holes in it, so that the Seventies protein and the milk protein come from the tubes, and it keeps the fat inside. DAVID POGUE: So what's left is basically skim milk? Randy Lewis: Exactly. DAVID POGUE: Eventually, Randy comes away with a flask of protein either very concentrated. How many letters enter to make this droplet in solution? RANDY LEWIS: Um, from our best goats who would be on a quarter of milk. DAVID POGUE: Wow. Then what... How much money can you get from this? Randy Lewis: We can get at least two to three meters. DAVID POGUE: Wow! Right left to have a look. The final step is the most delicate. Randy's team takes liquid protein to solidify in a strand of current spider centuries. So, this is your frantic spider century? Randy Lewis: This is century slider members. DAVID POGUE: Now proving his meeting, Randy loads the strand into a car that measures tensile strength. Randy Lewis: Look, you can start seeing him move. DAVID POGUE: It is, he straightened out. Money to stretch as she resisted being pulled until... It just misses. I drip, Randy Lewis: It just broke down. DAVID POGUE: But there's nothing to be sorry about. A computer measures the strength it takes to break the sample, telling them its tensure forces. Remember, the fuel force of century spider appears to be greater than steel or even Kevlar. Not as strong as carbon nanotubes, but more flexible, easier to make in long strands, and certainly not toxic. Randy Lewis: We're stronger than Kevlar, we're stronger than steel, but we're not stronger than the nature of the nature of the nature. Its engineer structure is included three different sections. Randy compared one of these sections to children's building blocks. Randy Lewis: If you look at a molecular pattern, what you see is that they have little pins and little holes, like LEGOs. So if you take and put them together and stack them up, like this, and try pulling them apart... DAVID POGUE: What are they, these are the proteins here? RANDY LEWIS: These are the proteins. And it's part of the protein we try to pull apart. He doesn't pull apart. DAVID POGUE: Well, so if I pull this way and this way, and this is the drag, and it doesn't come apart ... Randy Lewis: So four hundred million years ago, the Spiders played with LEGOs. DAVID POGUE: The second section of the protein is stretch. Randy Lewis: For elasticity, they have something that literally resembles a molecular spring season. When you pull on the ends... DAVID POGUE: Right. RANDY LEWIS: ... it stretches. DAVID POGUE: Well, so ... Randy Lewis: And then, and, and that the elasticity ... DAVID POGUE: This would be a different protein? RANDY LEWIS: No, it's the same protein. He had different parts. DAVID POGUE: Well. Randy Lewis: ... we have spring,... DAVID POGUE: Well. Randy Lewis. Then they were ordered to put them together, we have zips. Zippers keep things pretty well, but they have some flexibility, so you have a way of being able to put this together. With a spring, there might be too tight to do that, so you put a zipper between: now you have to drag either. DAVID POGUE: These basic blocks repeat over and over again, triumph of them in every strand of either. The complex structure is the evolution way of improving the strength of the common materials before all sides of nature. Before I left, Randy suggests one last experience so we'd be Spidermen. You're getting anything? RANDY LEWIS: I don't feel something. DAVID POGUE: Nothing. So it seems that the next chapter in the history of fake material is already upon us. For thousands of years, we have experimented with previous materials our entire planet makes metal and ceramics. Then through chemistry, we created synthetic and built atom materials our entire planet makes metal and ceramics. Then through chemistry, we created synthetic and built atom materials our entire planet makes metal and ceramics. Then through chemistry, we created synthetic and built atom materials our entire planet makes metal and ceramics. what we'll be able to accomplish, once again thrives human civilization across a new border, as has happened again and again, on millenniums, every time we learn more about making things stronger. Stronger.

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