STEM Design Challenge Cards for Young Learners Use these STEM design challenges to foster creativity and create new things! First, print these cards double-sided and cut them out. Next, choose a design challenge to complete with your family. æ Create a maze for a Design a structure that marble using materials balances on your hand. you have at home. Design a structure out **Build something** of rocks and that floats. natural materials. Use something light Create a 3D sculpture and something heavy with three to build something tall. different textures. Create a ramp that Design a fairy garden that keeps the rain out. makes toy cars go fast.

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Use these STEM design challenges to foster creativity and create new things! First, print these cards double-sided and cut them out. Next, choose a design challenge to complete with your family. (Back of cards - extension activities)

Extension

Now, can you create a structure that balances on your hand and is the same height as your hand?

Extension

Now, can you design a structure out of rocks and natural materials that is at least six inches tall?

Extension

Now, can you create a maze using only three household items?

Extension

Now, can you build something that floats and holds ten pennies?

Extension

Now, can you create a 3D sculpture with three different textures that can hold something?

Extension

Now, can you create a ramp that makes toy cars go fast using something plastic?

Extension

Now, can you use something light and something heavy to build something at least a foot tall that doesn't fall down?

Extension

Now, can you design a fairy garden that keeps the rain out and makes bugs happy?