

Hot Wheels Notes Worksheet

Grade: 7th

Designing the best guardrail for hot wheels cars



Define

Write down a strength and weakness of each material:

Wood: _____

Plastic: _____

Metal: _____

Concrete: _____



Predict

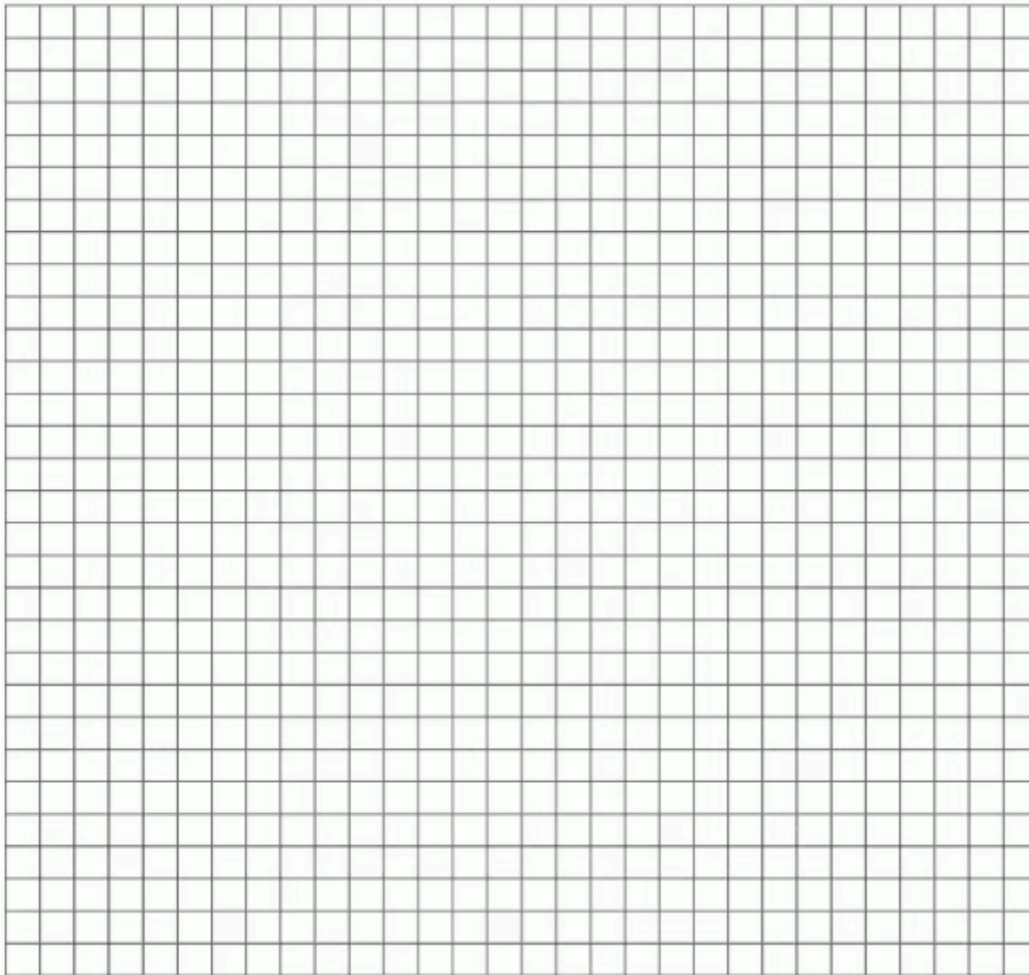
Predict which material (popsicle sticks, legos, cardboard, pipe cleaners, wooden blocks, straw constructors, mini cinder blocks, mini foam bricks, or interlocking plastic disks) will work best as a guardrail for our experiment and why?



Brainstorm

Draw a simple model(s) of how you'll construct your guardrail

Select: If you drew multiple models, pick the one you think will work best and circle it





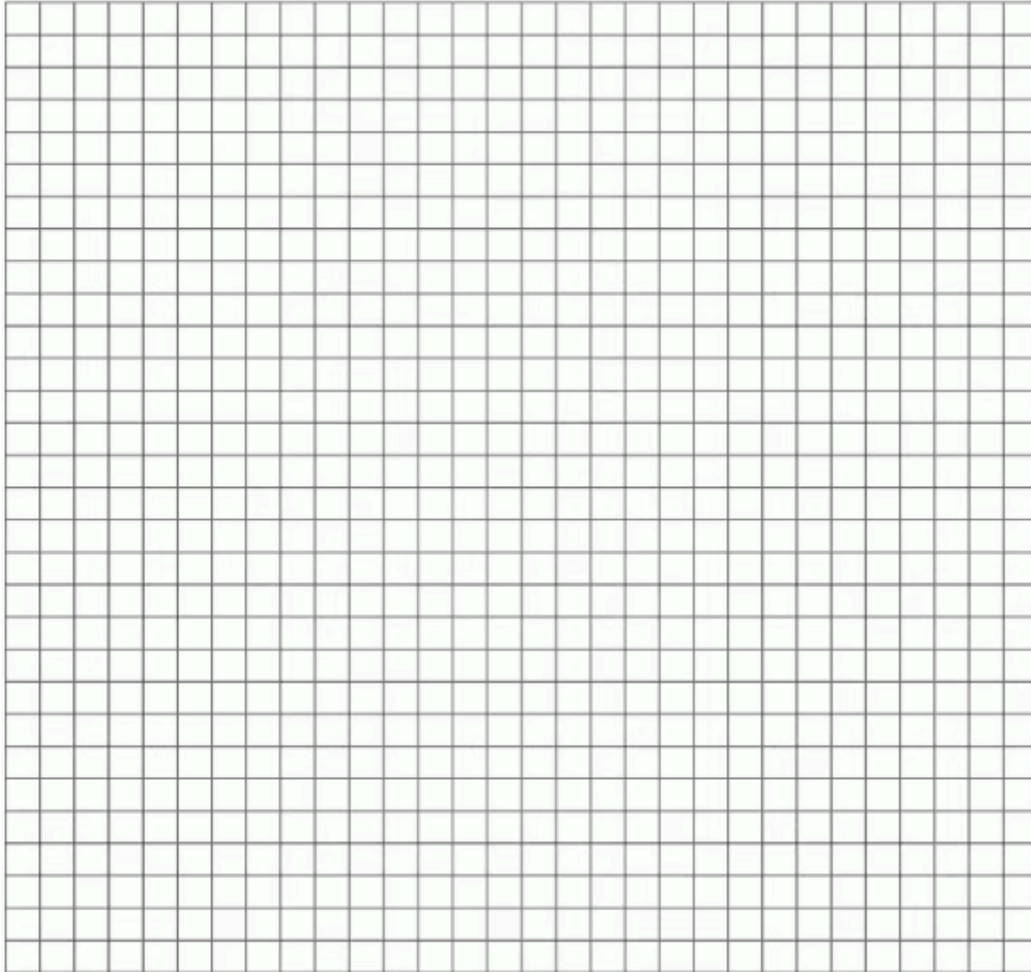
Analyze

Iterate:

<u>What worked well?</u>	<u>What didn't work?</u>

Communicate: What would you do differently next time?:

Draw a prototype for a new guardrail using any materials and the information you've learned from your previous model:



Why do you think some materials worked better than others?
