Grade 3-5 Science Suggestions

Stem Challenges: Help kids stay hands-on and active with open-ended building activities while strengthening understanding in science, engineering, math, and technology. Kids can use any materials they have at home to complete the challenges.

Stem Challenge for the Week: Chain Reaction

Using household or readily available materials, you must create a method for cleaning debris from water in an emergency situation.

The Goal: for unclean water (with bits of dirt, plants, and other debris) to be poured in or over your contraption, and after passing through the water will be more sanitary.
Start: mix dirt, water and salad dressing (or cooking oil) together
Design: a contraption using materials below to pour water over to "clean" the water
Test: which materials "cleaned" the water best

For this challenge, you can only use the following materials:

aquarium gravel play sand cotton balls coffee filters cloth rubber bands funnels metric rulers plastic cups tap water

water that you have "polluted" with bits of objects and salad dressing

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E	Explain your approach to this challenge and draw a diagram:	

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	On a scale of 1 to 10, how well did you accomplish this challenge? Why would you give yourself this grade?

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	Your Grade
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What would do differently next time?

	How might the skills to complete this challenge carry over into real-world applications?
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