

Science Fair Project Ideas

Physical Science: Mixing Matter (5–6)

Mixing Solids, Liquids, and Gases

How much sugar and salt can dissolve in water before it becomes supersaturated?

How soluble are flour and baking soda compared with sugar and salt?

How many layers form in different mixtures once they settle?

Which materials lose their individual properties when combined with water?

Do materials mix more easily in tap water or in bottled water?

Which dissolves faster in warm water: kosher salt or table salt?

Do differently weighted items float better on tap water or salt water?

How well do different types of oil—such as olive oil, vegetable oil, or canola oil—allow materials to dissolve in them?

Are there any oils that allow color to be permanently mixed into them?

How does the amount of helium, when mixed with “blown” air, determine how long a balloon will stay afloat?

Separating Solids and Liquids

Can black and white sand be separated once mixed?

Can dry mixtures be separated by using static electricity?

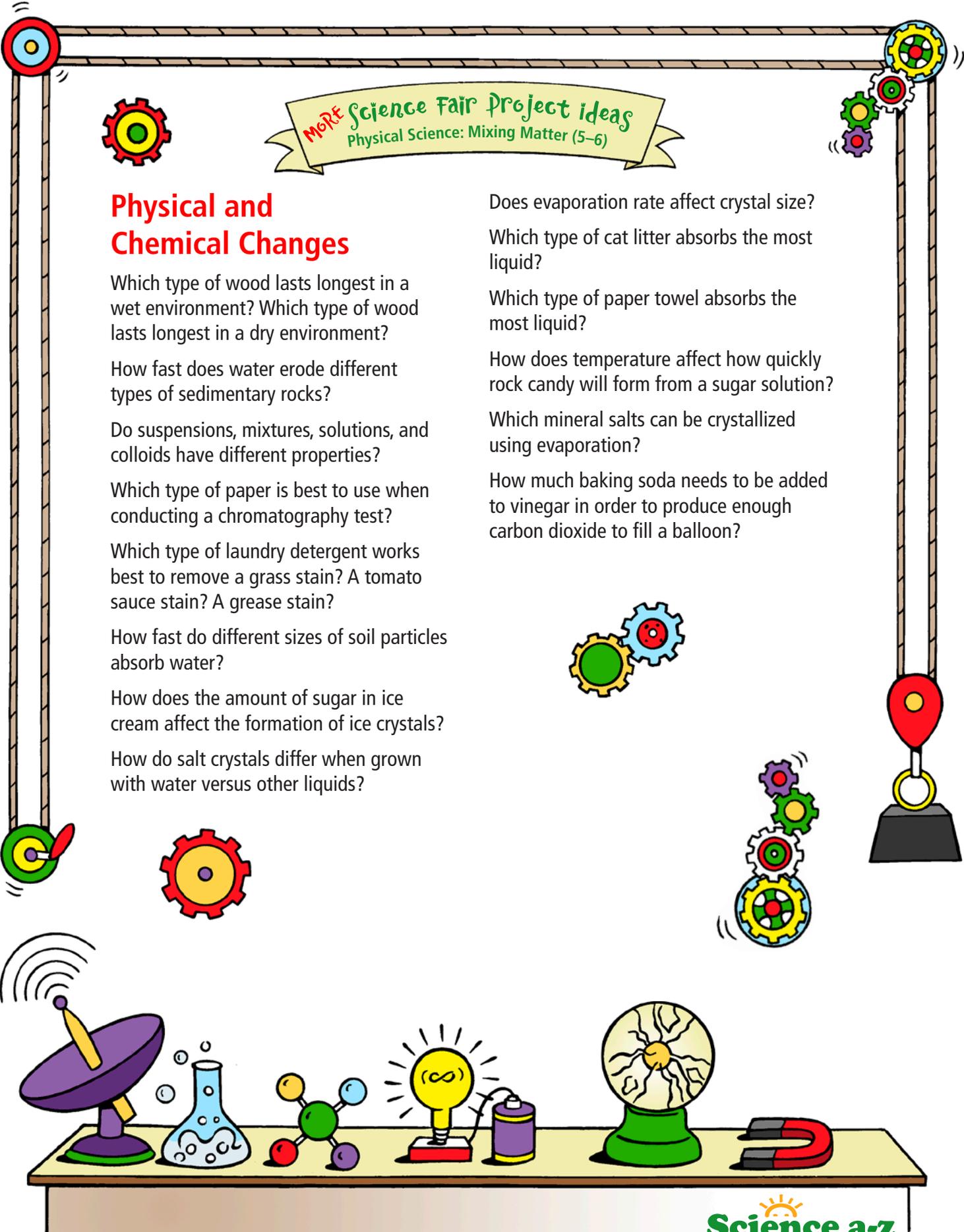
Can liquids be separated by evaporation?

How do recycling factories separate materials?

How much does a magnet pick up if it is run through potting soil? Sand? Dirt?

Can magnets be used to purify water?





MORE Science Fair Project Ideas
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Physical and Chemical Changes

Which type of wood lasts longest in a wet environment? Which type of wood lasts longest in a dry environment?

How fast does water erode different types of sedimentary rocks?

Do suspensions, mixtures, solutions, and colloids have different properties?

Which type of paper is best to use when conducting a chromatography test?

Which type of laundry detergent works best to remove a grass stain? A tomato sauce stain? A grease stain?

How fast do different sizes of soil particles absorb water?

How does the amount of sugar in ice cream affect the formation of ice crystals?

How do salt crystals differ when grown with water versus other liquids?

Does evaporation rate affect crystal size?

Which type of cat litter absorbs the most liquid?

Which type of paper towel absorbs the most liquid?

How does temperature affect how quickly rock candy will form from a sugar solution?

Which mineral salts can be crystallized using evaporation?

How much baking soda needs to be added to vinegar in order to produce enough carbon dioxide to fill a balloon?

