

Dissolving sugar and salt

This task is about critiquing a plan for an investigation.

Dylan wanted to find out whether water with dissolved salt evaporated faster than water with dissolved sugar. Here is the plan he wrote for his investigation:

1. Mix 3 teaspoons of salt in half a cup of warm water.
2. When the salt is dissolved, pour the solution into a saucer and put it on the window sill.
3. Mix 2 teaspoons of sugar in half a cup of warm water.
4. When the sugar is dissolved put the cup on the window sill.
5. Check the solutions at 2 p.m. every day. When all the water has evaporated from the containers the answer will be known!

a) There are some problems with Dylan's plan which means that it is not a "fair test".
Write down **two** of the problems.

b) Should Dylan always check both solutions together?

Yes

No

c) Give a reason for your answer.

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