

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

| Name(s) | Project Number |
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| Ashley A. Thompson | |
| | |
| | 22186 |
| Project Title | (2) |
| The Effect of a Chemical on a Pipe Clog | |
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| Objectives/Goals Abstract | |
| The objective is to learn which chemical will work best at eating away at lard in | cloged household |
| drains. | |
| Methods/Materials | • which chamical heat |
| The procedures included the testing of four drain chemicals in order to determine broke down one cup of lard in a ten minute time period. The lare was compared | e in four individual pipes |
| broke down one cup of lard in a ten minute time period. The lard was compacted to represent a blocked household drain. Water was then poured into each of the | pipes through a funnel. |
| Once the blockage was confirmed, the four chemicals were powed separately in | nto each of the pipes to |
| determine which would clear the blockage first. The results were neasured in r | millimeters. |
| Results Each of the chemical's result numbers, from start to finish anged from the to r | nineteen millimeters Only |
| Each of the chemical's result numbers, from start to finish, ranged from one to r one chemical, Pro Liquid Drain Opener, broke through the blockage before the Zep Drain Opener came in second followed by Drano Max. Liquid Plumber pr | ten minute time period. |
| Zep Drain Opener came in second followed by Drano Max. Draud Plumber pr | oved to be the least |
| effective. | |
| Conclusions/Discussion These results indicate that they support my hypothesis, if Pro I quid Drain Ope | mer broke through first |
| then it would be the most effective chemical. The testing preved that Pro Liqui | d Drain Opener containing |
| sulfuric acid cleared a clogged drain the fastest. These results tell us which cher | mical will work the best $a \in \mathbb{C}$ |
| clearing a clogged drain and why | |
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| Summary Statement | |
| My project tests four different drain chemicals to see which is the most effectiv | e in clearing a pipe clog in |
| ten minutes. | 8 . F I 8 |
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| Help Received | |
| Teacher helped with results; Mother helped improve writing; Father helped built | ld/construct this project |
| and monitored me during the testing; Santee Public Library reference workers a | assisted in locating books/ |
| information. | č |
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