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| --- | --- | --- | --- | --- | --- |
|  | **Nouns – Cluster 3: Vacuuming** | **Counter** | **DBpedia** | **ConceptNet** | **NELL** |
| **1** | Vacuum cleaner | 11 | 0 clicks, 1 minute | 0 clicks, 1 minute | 2 clicks, 3 minutes |
| **2** | Electricity | 4 | 1 click, 2 minutes | x | x |
| **3** | Tool | 1 | 1 click, 3 minutes | 1 click, 1 minute | 3 clicks, 4 minutes |
| **4** | Dirt / Dust / Waste / Sand | 19 | 0 clicks, 1 minute | 2 clicks, 3 minutes | 3 clicks, 4 minutes |
| **5** | Object | 3 | x | x | x |
| **6** | Space / Room | 3 | 1 click, 3 minutes | 1 click, 2 minutes | 3 clicks, 3 minutes |
| **7** | Bag / Dustbag | 7 | 0 clicks, 1 minute | 2 clicks, 3 minutes | 3 clicks, 3 minutes |
| **8** | Mode | 2 | x | x | x |
| **9** | Floor | 14 | 0 clicks, 1 minute | 2 clicks, 2 minutes | 3 clicks, 5 minutes |
| **10** | Pole | 1 | x | x | x |
| **11** | Spot | 2 | x | x | x |
| **12** | Pattern | 1 | x | x | x |
| **13** | Liquid | 3 | 0 clicks, 1 minute | x | x |
| **14** | Corner | 7 | 1 click, 2 minutes | x | x |
| **15** | Cable / Cord | 3 | 1 click, 3 minutes | x | 3 clicks, 3 minutes |
| **16** | Operational radius | 1 | x | x | x |
| **Average clicks:** | n/a | n/a | 0.5 clicks | 1.3 clicks | 2.9 clicks |
| **Average time:** | n/a | n/a | 1.8 minutes | 2 minutes | 3.6 minutes |

**DBpedia**

1. <http://dbpedia.org/page/Vacuum_cleaner>

2. <http://dbpedia.org/page/Vacuum_cleaner>, <https://en.wikipedia.org/wiki/Vacuum_cleaner>

3. <http://dbpedia.org/page/Vacuum_cleaner>, <https://en.wikipedia.org/wiki/Vacuum_cleaner>

4. <http://dbpedia.org/page/Vacuum_cleaner>

5. x

6. <http://dbpedia.org/page/Vacuum_cleaner>, <https://en.wikipedia.org/wiki/Vacuum_cleaner?oldid=743307366>

7. <http://dbpedia.org/page/Vacuum_cleaner>

8. x

9. <http://dbpedia.org/page/Vacuum_cleaner>

10. x

11. x

12. x

13. <http://dbpedia.org/page/Vacuum_cleaner>

14. <http://dbpedia.org/page/Vacuum_cleaner>, <https://en.wikipedia.org/wiki/Vacuum_cleaner>

15. <http://dbpedia.org/page/Vacuum_cleaner>, <https://en.wikipedia.org/wiki/Vacuum_cleaner>

16. x

**ConceptNet**

1. <http://conceptnet.io/c/en/vacuuming>

2. x

3. <http://conceptnet.io/c/en/vacuuming>, <http://conceptnet.io/c/en/vacuum_cleaner>

4. <http://conceptnet.io/c/en/vacuuming>, <http://conceptnet.io/c/en/vacuum_cleaner>, <https://en.wiktionary.org/wiki/vacuum_cleaner>

5. x

6. <http://conceptnet.io/c/en/vacuuming>, <http://conceptnet.io/c/en/vacuum_cleaner>

7. <http://conceptnet.io/c/en/vacuuming>, <http://conceptnet.io/c/en/vacuum_cleaner>, <https://en.wiktionary.org/wiki/vacuum_cleaner>

8. x

9. <http://conceptnet.io/c/en/vacuuming>, <http://conceptnet.io/c/en/vacuum_cleaner>, <https://en.wiktionary.org/wiki/vacuum_cleaner>

10. x

11. x

12. x

13. x

14. x

15. x

16. x

**NELL**

1. <http://rtw.ml.cmu.edu/rtw/kbbrowser/>, <http://rtw.ml.cmu.edu/rtw/kbbrowser/physicalaction:vacuuming>, <https://www.google.com/search?q=%22Vacuuming%22>

2. x

3. <http://rtw.ml.cmu.edu/rtw/kbbrowser/>, <http://rtw.ml.cmu.edu/rtw/kbbrowser/fungus:hepa_vacuuming_of_dusty_surfaces>, <https://www.google.com/search?q=%22HEPA+vacuuming+of+dusty+surfaces%22>, <https://molekule.com/blog/hepa-vacuum-what-it-can-and-cannot-do/>

4. <http://rtw.ml.cmu.edu/rtw/kbbrowser/>, <http://rtw.ml.cmu.edu/rtw/kbbrowser/fungus:hepa_vacuuming_of_dusty_surfaces>, <https://www.google.com/search?q=%22HEPA+vacuuming+of+dusty+surfaces%22>, <https://molekule.com/blog/hepa-vacuum-what-it-can-and-cannot-do/>

5. x

6. <http://rtw.ml.cmu.edu/rtw/kbbrowser/>, <http://rtw.ml.cmu.edu/rtw/kbbrowser/fungus:hepa_vacuuming_of_dusty_surfaces>, <https://www.google.com/search?q=%22HEPA+vacuuming+of+dusty+surfaces%22>, <https://molekule.com/blog/hepa-vacuum-what-it-can-and-cannot-do/>

7. <http://rtw.ml.cmu.edu/rtw/kbbrowser/>, <http://rtw.ml.cmu.edu/rtw/kbbrowser/fungus:hepa_vacuuming_of_dusty_surfaces>, <https://www.google.com/search?q=%22HEPA+vacuuming+of+dusty+surfaces%22>, <https://molekule.com/blog/hepa-vacuum-what-it-can-and-cannot-do/>

8. x

9. <http://rtw.ml.cmu.edu/rtw/kbbrowser/>, <http://rtw.ml.cmu.edu/rtw/kbbrowser/physicalaction:vacuuming>, <https://www.google.com/search?q=%22vacuuming%22>, <https://housewifehowtos.com/clean/how-to-vacuum-properly/>

10. x

11. x

12. x

13. x

14. x

15. <http://rtw.ml.cmu.edu/rtw/kbbrowser/>, <http://rtw.ml.cmu.edu/rtw/kbbrowser/physicalaction:vacuuming>, <https://www.google.com/search?q=%22vacuuming%22>, <https://housewifehowtos.com/clean/how-to-vacuum-properly/>

16. x