**Clustering algorithm**

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**What do you consider to be commonsense knowledge when washing clothes?**

1. Empty all pockets before washing

2. The cleaner the better

3. Separate clothes by color and by material

4. Use washing powder, pods, or other detergent

5. Choose the right washing program

6. Put clothes into washing drum

7. Close the door before washing

8. Reverse the clothes before washing

9. How to dry clothes faster

10. All clothes are wet after they are washed

11. Apply the right temperature for the right material

12. Water is required to wash clothes

13. Do not use bleach for other colors than white

14. New colored clothes can release color and affect other clothes they're washed with

15. A washing machine requires electricity

**What do you consider to be commonsense knowledge when doing dishes?**

1. You need some detergent/soap

2. You need water

2. Specific order (Rinse the dishes, then use soap to clean and finally wash it off)

3. Applying warm water is more effective than cold water

4. Use the soft side of the sponge for scratch sensitive objects / objects with special coatings

5. Dry dishes with a towel

6. Not using the same sponge you use for washing cutting boards where you cut raw meat for regular utensils

7. Be cautious as most dishes can break fairly easily

8. Clean your dishwasher once in a while

9. The sponge should be clean

10. Dishwasher requires electricity

11. Plastic containers may deform when put into the machine

**What do you consider to be commonsense knowledge when vacuuming?**

1. Vacuum cleaner requires electricity

2. Do not vacuum things that are too big

3. Use the vacuum tool to suck up dirt

4. Small objects can be sucked in unintentionally, so be aware

5. The vacuum cleaner has to move around in order for you to clean your space

6. Change a full vacuuming bag for a new one

7. Use the two modes when switching from hard to soft floors

8. Extend the pole to reach difficult spots

9. Standard pattern: That you should shift to the front and the back

10. Dust goes into the vacuum cleaner

11. A vacuum cleaner is not suitable for sticky objects, liquids etc.

12. Do not forget to vacuum in corners too

13. There have to be no dust, sand or waste on the floor, after vacuuming

14. The cable limits its operational radius

**What do you consider to be commonsense knowledge when cooking?**

1. Season your food (apply salt and pepper)

2. Use the right amount of oil or some kind of fat to make sure the food doesn't stick to the frying pan

3. Wash all your food before cooking

4. Have a clean and safe cooking environment

5. Watch out for expiration dates

6. Use the right amount of heat

7. Use a burner not larger than the pan size

8. Use wooden spoons for pans with special coating, instead of metal spoons

9. Knowing to salt your water when you're cooking pasta or potatoes

10. What kind of knives are for what

11. When you want to put something in the oven, the oven first has to be heated

12. The pan is hot when it is on the stove

13. You can't touch the pan, while it is on the stove cooking, because it is hot

14. Cooking requires aggregating and transforming the state of some food

15. Ingredients have influence on the dish

16. Cooking is the process of heating food to improve its edibility and taste

**What do you consider to be commonsense knowledge when cleaning windows?**

1. Use some detergent/soap

2. Use water

3. You can use a cloth to clean the windows

4. Dry from top to bottom and don’t lift the handle until you reached the end

5. Don’t clean your windows while the air is dusty or when it’s raining

6. Dry the window off after cleaning it to prevent stains

7. Specific order: First use cleanser then wipe off with something dry

8. Afterwards, the windows must be clean so that I can see through them, without seeing any stains

9. Water runs down to the bottom

10. Windows are, in most cases, fragile

**Transcript**

Before clustering:

“I hereby state that I have not filled in the survey myself, nor am I a specialist in the field of commonsense knowledge. My task is to put the given answers in certain clusters, in order to decrease repetitive answers as much as possible.”

After clustering:

“I saw several answers that I considered to have the same meaning in my eyes. For example, when I saw these two answers (1. Empty all pockets, 2. Check pockets before washing), I can see that both answers are about emptying your pockets. This is when I decided to put these two answers into one cluster.

There are a lot of answers which contain the same nouns. For example, to the question “What do you consider to be commonsense knowledge when washing clothes?”, a lot of answers contained the nouns: Temperature, color, material, detergent, electricity, water. Seeing the same noun in multiple answers drew my attention, as I automatically became more aware. When I saw that multiple answers contained the same noun, this created a certain trigger in my head to already think “Maybe they belong to the same cluster”. However, I did not base my decisions purely on word counting. My decisions are all based my assumptions that multiple answers just mean the same thing, but that they are just phrased in a different way.

I also created a cluster “Use the right amount of heat”, which was created by combining several answers that all meant the same, namely to use the right amount of heat on the stove when cooking. Next to “heat”, I assumed that “fire” means the same thing. For example, I assumed that someone who stated that “You should apply not too much fire”, means the same as using the right amount of heat.

In short, my clusters are based on word counting and my personal assumption of answers that I think belong together.”