



ADAPTIVE

# OUT OF BOUNDS

TAKE-HOME ACTIVITY



CITY OF CORONA  
**LIBRARY AND RECREATION SERVICES**



Secret Code: Balloon

## Corona Adaptive

- The City of Corona Adaptive program is proud to offer a variety of recreational, educational, social, and creative activities for those 16 years and older with developmental disabilities.
- Out of Bounds is designed for teens and adults with special needs. This interactive Summer 2020 program is designed to engage participants, encourage thought and the ability to learn through science experiments. Families and caretakers are highly encouraged to participate.

## Activity

### Dancing Corn: An Experiment

[CLICK HERE FOR VIDEO INSTRUCTIONS](#)

#### What you need:

- ½ cup dried corn kernels
- ¼ cup baking soda
- Vinegar
- Clear jar

#### What to do:

**Step 1** – Pour ½ cup of dried corn kernels into the jar.

**Step 2** – Fill the jar about 2/3 ways with white vinegar.

**Step 3** – This step is a little messy—we suggest you do this on a plate, outside, or in a sink. Start pouring in the baking soda and watch it fizz all the way out of the jar. You can see some of the corn kernels making their way to the top, hanging out with the fizzy bubbles.

**Step 4** – When most of the bubbles have died down, the kernels will start going up and down as if they were on an elevator! Why do you think this happens?

#### How it works:

A chemical reaction occurs between the acid in the vinegar and the sodium bicarbonate in the baking soda when they are combined. This causes the release of chemical energy in the formation of a gas, carbon dioxide. Some gas bubbles will stick to the outside of the kernels, which raises them to the surface of the liquid because together they have a lower density than the water. At the surface, the gas bubbles burst, releasing the carbon dioxide into the air. Once the bubbles have burst, the density of the kernel is once again greater than that of water, so the kernel sinks back to the bottom of the jar.

## Coloring

For more fun, three sheets have been attached for you to print and color!



FRENCH - PENSER

ITALIAN - PENSARE

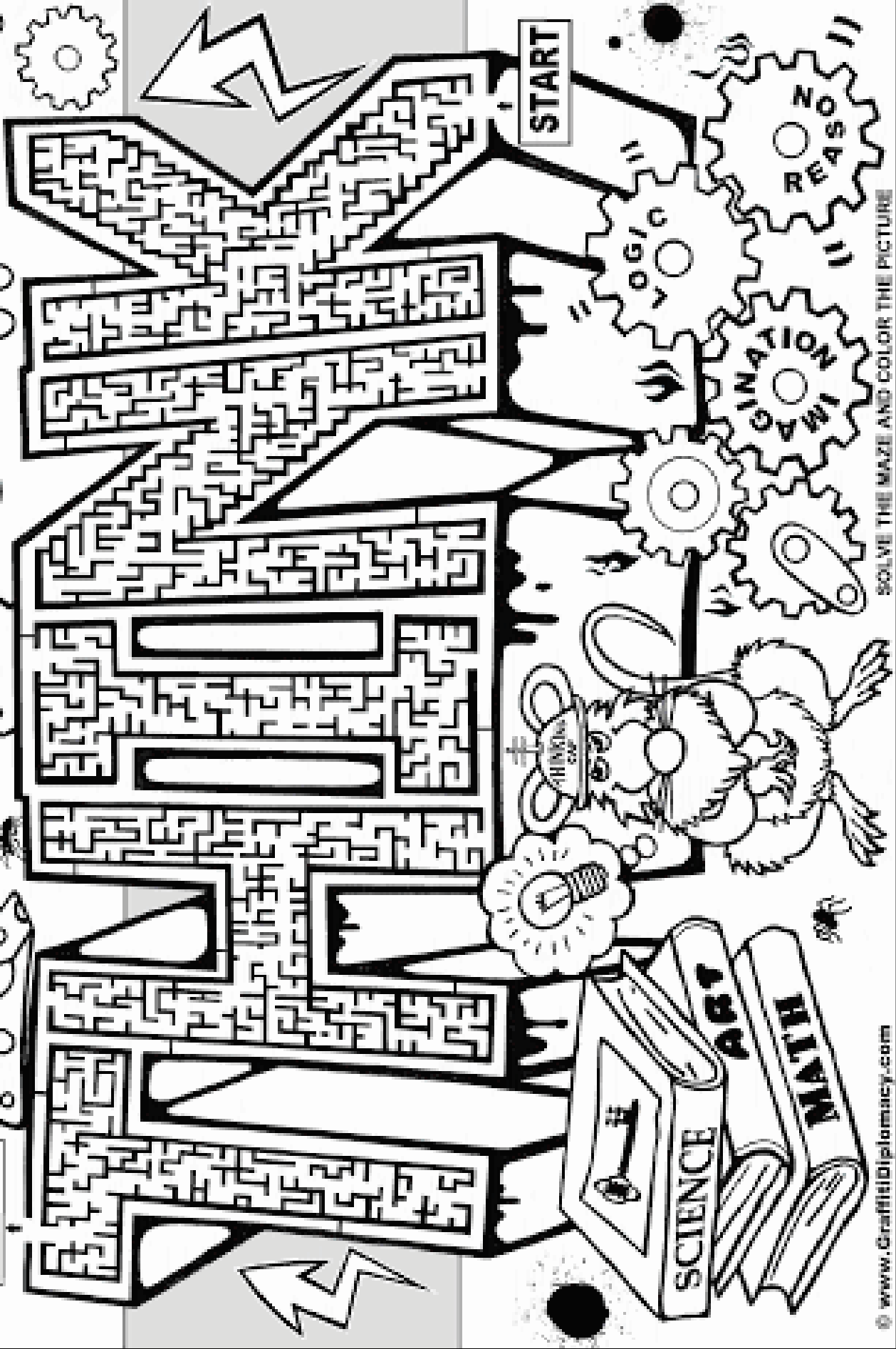
GERMAN - DENKEN

SPANISH - PENSAR

CHINESE - 思考

FINISH

START



SOLVE THE MAZE AND COLOR THE PICTURE

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