



# GRAVITY'S RAINBOW.

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**MOVE** the red knob up.

**PLACE** one ball behind each of the metal tabs on the red ramp.

**PLACE** the cups in the trough so that the green line on each cup lines up with a green arrow on the bin.

**USE** the crank to tilt the ramp until the arrow on it lines up with the green arrow.

**PULL** down the red knob quickly.

**TRY** it again, but this time line up the cups and the ramp with the orange arrows.

The balls all end up in the cups, which are equally spaced in the trough.

The balls all take the same time from leaving the end of the ramp to landing in their buckets. Therefore, the more distant the bucket, the faster the ball must be travelling when it leaves the ramp. This means that the further away the bucket is, the higher the ball must start on the ramp.