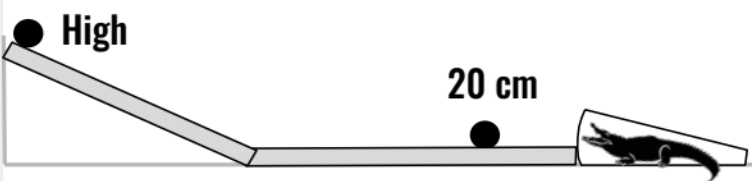
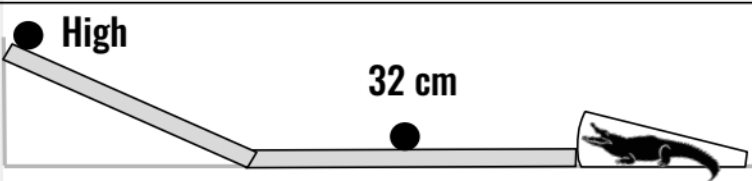
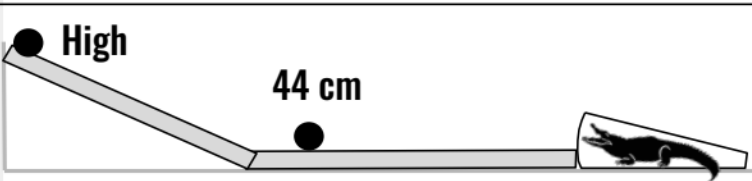
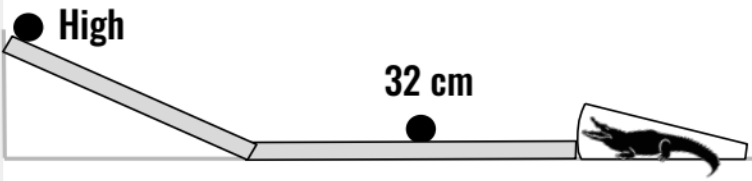
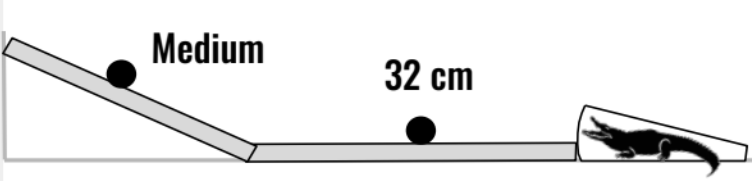
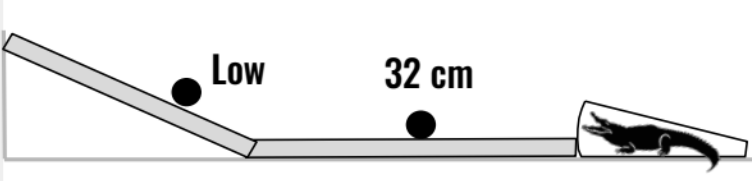


# Distance and Height Experiments!

| Always release the Hill Marble at the "High" mark:                                | Change the distance of the Bumper Marble from the alligator: | Did the Hill Marble get eaten?<br>(It's ok if the Bumper Marble got eaten.) |               |               |               |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|---------------|---------------|
|                                                                                   |                                                              | Trial 1                                                                     | Trial 2       | Trial 3       | Trial 4       |
|  | 20 cm                                                        | eaten<br>safe                                                               | eaten<br>safe | eaten<br>safe | eaten<br>safe |
|  | 32 cm                                                        | eaten<br>safe                                                               | eaten<br>safe | eaten<br>safe | eaten<br>safe |
|  | 44 cm                                                        | eaten<br>safe                                                               | eaten<br>safe | eaten<br>safe | eaten<br>safe |

**DISTANCE RESULTS:** Moving the Bumper Marble farther away from the alligator ( **always** / **sometimes** / **never** ) kept the Hill Marble from getting eaten. Currently, the Bumper Coaster ride has ( **too much** / **just enough** / **too little** ) energy.

| Change the height where you release the Hill Marble:                                | Always place the Bumper Marble 32 cm from the alligator: | Did the Hill Marble get eaten?<br>(It's ok if the Bumper Marble got eaten.) |               |               |               |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|---------------|---------------|---------------|
|                                                                                     |                                                          | Trial 1                                                                     | Trial 2       | Trial 3       | Trial 4       |
|  | 32 cm                                                    | eaten<br>safe                                                               | eaten<br>safe | eaten<br>safe | eaten<br>safe |
|  | 32 cm                                                    | eaten<br>safe                                                               | eaten<br>safe | eaten<br>safe | eaten<br>safe |
|  | 32 cm                                                    | eaten<br>safe                                                               | eaten<br>safe | eaten<br>safe | eaten<br>safe |

**HEIGHT RESULTS:** Moving the Hill Marble lower on the hill ( **always** / **sometimes** / **never** ) kept it from getting eaten. Currently, the Bumper Coaster ride has ( **too much** / **just enough** / **too little** ) energy.