Model 3 **Green-Headed Duck**

Jasmine, the green-headed duck, sets off on a global journey to fulfill her dreams.

Jasmine enjoys swimming, displaying great agility in the water. However, walking on land requires the assistance of her wings for balance. Inspired by friends Freddie and Kevin, who embrace their unique abilities, Jasmine discovers her own talents. Exercising her wings, she fulfills her dream of flying, embarking on global adventures. Through her journey, Jasmine learns the importance of unlocking potential and chasing dreams.



Model 4 **Bipedal Creature**

This model needs the first three sets of model components to assemble.







What's inside your experiment kit



-	NU.	Description	uty.	item No.
0	1	B-CUBE	2	880-W10-A1R
0	2	B-CUBE	8	880-W10-A1G
0	3	B-CUBE	3	880-W10-A1D
0	4	B-6 HOLE CUBE	1	880-W10-N2R
0	5	B-6 HOLE CUBE	1	880-W10-N2G
0	6	B-TRIANGLE	1	880-W10-S1R
0	7	B-CONCAVE	3	880-W10-D1R
0	8	B-CONCAVE	2	880-W10-D1Y
0	9	B-CONVEX	7	880-W10-R1R
0	10	B-CONVEX	4	880-W10-R1G
0	11	B-CONVEX	6	880-W10-R1T1
Ο	12	B-CONVEX	1	880-W10-R1W

Dear Adult Helpers,

Gravity is something we experience in our everyday lives, like water flowing downhill or Newton's apple falling. This kit uses stories and experiments to provide children aged three and above with an understanding of the movement of objects on slopes. Please read the story, conduct the experiments, and assemble the models together with your child. The models in this kit use the Gigo classic 2 cm block system, making them easy to assemble and disassemble. Let your child try assembling them independently, and provide assistance as needed.

Safety Information

»» Warning! Not suitable for children under 3 years. Choking hazard — small parts may be swallowed or inhaled. »» Keep the packaging and instructions as they contain important information.

Experiment 1

- **Gravity and Friction**
- 1. Place a block on a flat surface box results in the block being stationary without any additional force applied (Figure 1).
- 2. However, when the box is gradually elevated to form an inclined plane (Figure 2), the block starts to slide and move downwards when the incline angle becomes significant.
- 3. All experiments used a slope with higher on top right, lower on bottom left.
- 4. Why does the block remain stationary on the flat surface but starts sliding when the box becomes more inclined?
- 5. You can use books or various boxes as ramps for the experiment.

NO.	Description	Qty.	Item No.
13	B-FLAT TRIANGLE	2	7128-W10-A2R
14	B-FLAT TRIANGLE	2	7128-W10-A2G
15	B-EYE-2	6	7128-W22-2
16	B-SHORT PEG	5	7344-W10-C2D
17	B-PEG REMOVER	1	7061-W10-B1Y
18	B-RAMP WALK CUBE	3	7462-W10-A1S
19	B-RAMP WALK LEG A	3	7462-W10-A2S
20	B-RAMP WALK LEG B	3	7462-W10-A3S
21	B-RAMP WALK AXLE	3	7462-W10-A4S
22	P-ANTI-SLIP PAD	1	R12#7462
23	P-RAMP MOUNTING CARD	1	K16#7462
24	P-BARRIER CARD	1	K16#7462-1
	NO. 13 14 15 16 17 18 19 20 21 22 23 24	NO.Description13B-FLAT TRIANGLE14B-FLAT TRIANGLE15B-EYE-216B-SHORT PEG17B-PEG REMOVER18B-RAMP WALK CUBE19B-RAMP WALK LEG A20B-RAMP WALK LEG B21B-RAMP WALK AXLE22P-ANTI-SLIP PAD23P-RAMP MOUNTING CARD24P-BARRIER CARD	NO. Description Qty. 13 B-FLAT TRIANGLE 2 14 B-FLAT TRIANGLE 2 15 B-EYE-2 6 16 B-SHORT PEG 5 17 B-PEG REMOVER 1 18 B-RAMP WALK CUBE 3 20 B-RAMP WALK LEG A 3 21 B-RAMP WALK LEG B 3 22 P-ANTI-SLIP PAD 1 23 P-RAMP MOUNTING CARD 1 24 P-BARRIER CARD 1

Figure 2 Figure 1 Lift it up gradually.

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Model 1 **Caiman and Cave**

In the swamp, little caiman Kevin discovered a secret cave filled with shiny crystals...

Once upon a time, a tiny caiman named Kevin lived in the swamp. He was excellent at finding the most comfortable homes. One day, as Kevin ventured through the swamp, he stumbled upon something peculiar - a downward slope. Intrigued, he decided to follow it. Guess what he found? It was a secret cave filled with shiny crystals! Kevin considered it his new special place, where he felt safe and happy, surrounded by the sparkling beauty of the crystals.



Model 2 **Crab and Little Shrimp**

Once upon a sandy beach, there were two special friends: Freddie the



Challenge

Fiddler Crab Rescues the Little Fish

Two little fish are stranded on the shore. How can the fiddler crab move them both into the sea at the same time? Two fish have different weights. Try figuring out how to arrange them so that the fiddler crab can lift both fish at the same time.





The fiddler crab, carrying two fish, has a higher center of gravity, so its pace is slower!