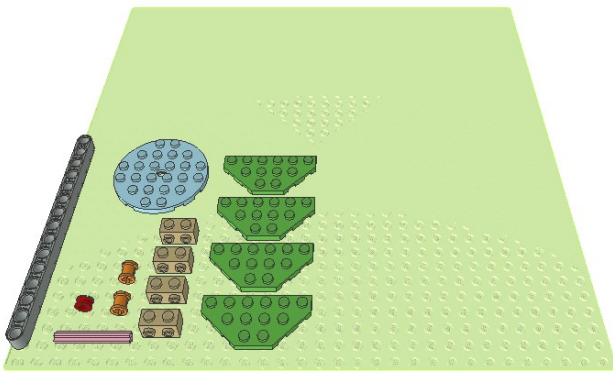


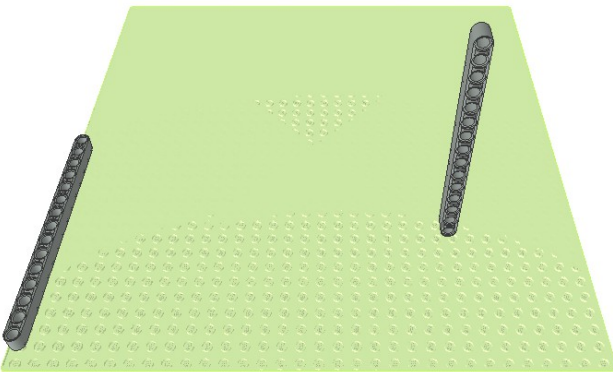
LEGO PINWHEEL INSTRUCTIONS
KIT DESIGN AND INSTRUCTIONS COPYRIGHT 2022 TERRY ERICKSON



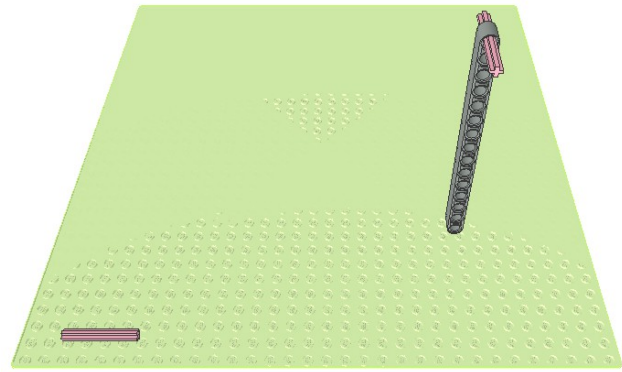
PARTS

Parts list:

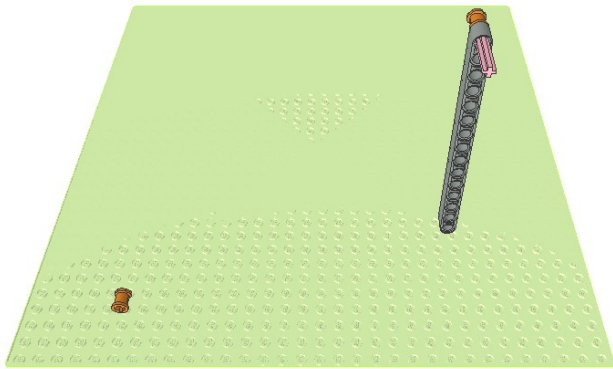
QTY	DESIGN	COLOR	SIZE	USAGE
			-X-X-	-----
1	32278	Gray	15m	Beam
1	3705	Pink	4m	Axle
1	6577	Red	.5m	Bushing
2	3713	Orange	1m	Bushing
1	11213	L Blue	6x6xp	Round
4	11211	Tan	1x2x1	2 knobs
4	2419	Green	6x3xp	wing



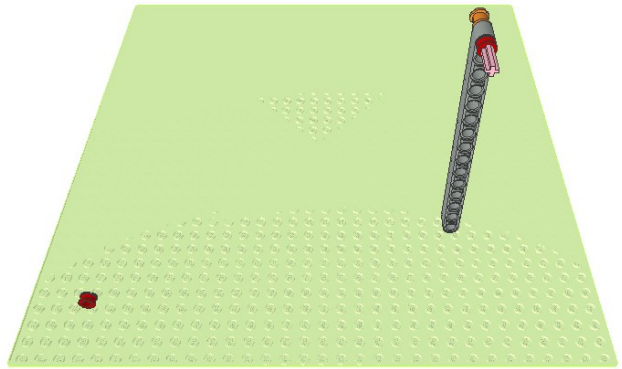
STEP 1, place beam upright as shown



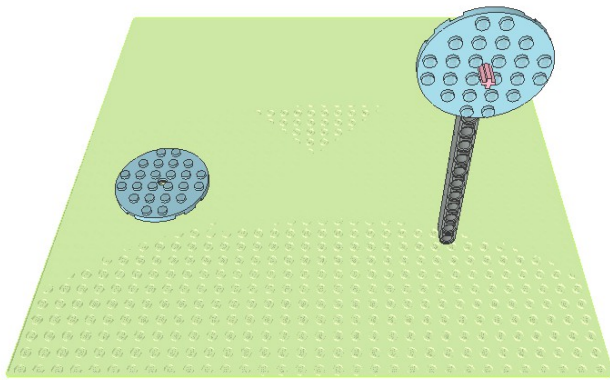
STEP 2, place axle as shown



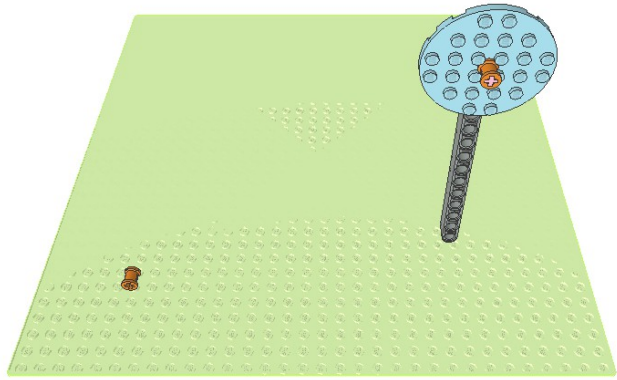
STEP 3, place bushing to back end of axle



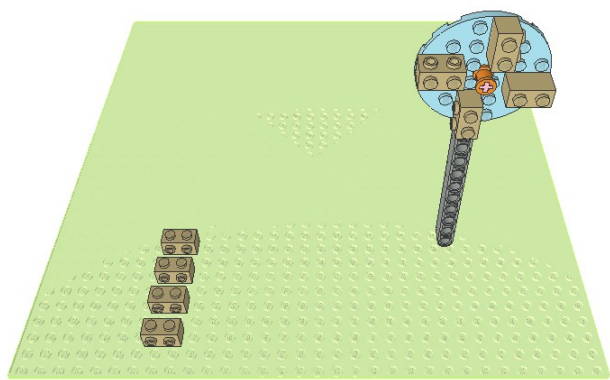
STEP 4, place 1/2 bushing on axle in front of beam. Leave a small gap to allow for axle rotation.



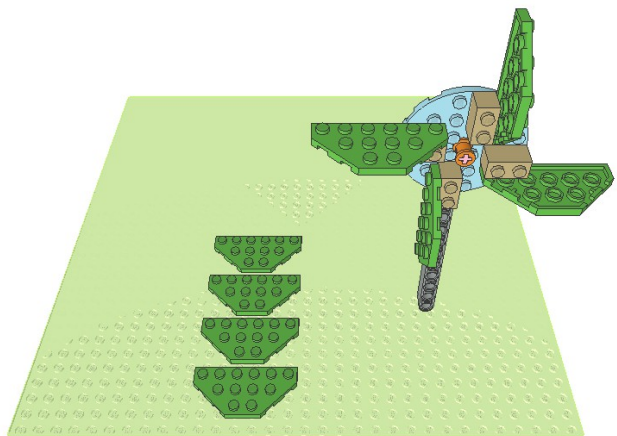
STEP 5, place round 6x6 on axle right against 1/2 bushing. Insure small gap between bushing and beam still exists.



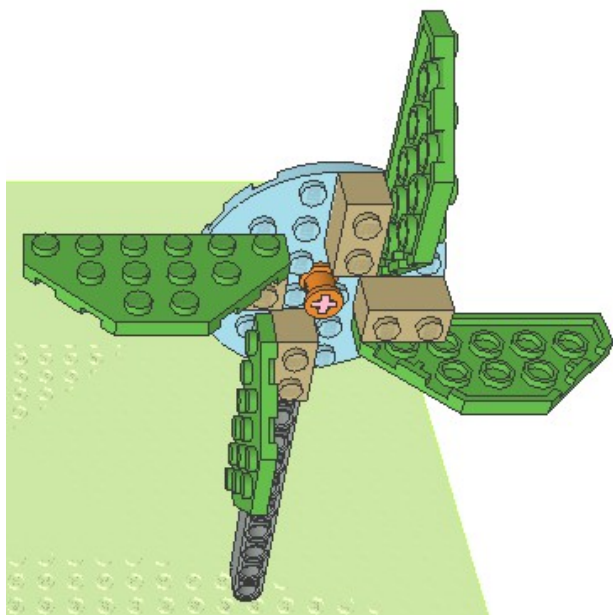
STEP 6, place bushing on axle against the 6x6 round plate.



STEP 7, place all four 1x2 bricks with side knobs on 6x6 round plate as shown. Insure the side knobs are facing the proper directions.



STEP 8, place all four 6x3 wings on the four 1x2 side knobs as shown. Insure the inside edges of the wings are flush with the 1x2 bricks.



COMPLETED!

NOTES:

Although pinwheels can be made using other Lego swivel elements, the Technic axle style allows for the easiest spinning.

Other plates can be used instead of the 3x6 wings. 2x6, 2x8, or 4x6 plates work well but have slightly different reactions to wind.

If your pinwheel does not spin freely, check that there is a very small gap between the 1/2 bushing and the beam. No gap causes less spin freedom while too large a gap makes the pinwheel wobble as it spins.