EXPERIMENT MANUAL

THAMES & KOSMOS

TOOLS & BUILDING

WARNING: CHOKING HAZARD — Small parts. Not for children under 3 yrs.

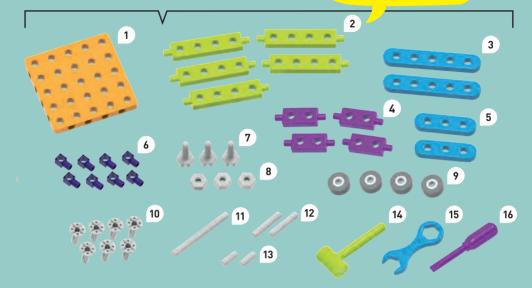
Franckh-Kosmos Verlags-GmbH & Co. KG, Pfizerstr. 5-7, 70184 Stuttgart, Germany | +49 (0) 711 2191-0 | www.kosmos.de Thames & Kosmos, 89 Ship St., Providence, RI, 02903, USA | 1-800-587-2872 | www.thamesandkosmos.com Thames & Kosmos UK LP, 20 Stone Street, Cranbrook, Kent, TN17 3HE, UK | 01580 713000 | www.thamesandkosmos.co.uk



What's inside your experiment kit:

Good to know!

If you are missing any parts, please contact Thames & Kosmos customer service (see back cover).



Checklist:

J	No.	Description	Quantity	Part No.
0	1	25-hole base plate	1	7078-W10-A10
0	2	4-hole rod	5	7330-W11-I1G2
0	3	5-hole rod	2	7330-W11-D1B1
0	4	2-hole rod	4	7330-W11-H1P
0	5	3-hole rod	2	7330-W11-E1B1
0	6	Dowel block		
		with side hole	8	7331-W10-M1P
0	7	Bolt	3	8036-W10-U1S
0	8	Nut	3	8036-W10-W1S
0	9	Wheel	4	8036-W85-C1S
0	10	Nail	7	8036-W10-T1S
0	11	Long dowel	1	7330-W11-B1S
0	12	Medium dowel	2	7330-W11-A1S
0	13	Short dowel	2	7268-W11-B1S
0	14	Hammer	1	8036-W11-J1G
0	15	Wrench	1	8036-W11-G1B
0	16	Screwdriver	1	8036-W11-D1P1

WARNING!

- >> Not suitable for children under 3 years. Choking hazard — small parts may be swallowed or inhaled.
- >> Before starting, check the parts list to be sure that all of the correct pieces are included in the kit. Keep the packaging and instructions as they contain important information.
- >> Store the experiment material and assembled models out of the reach of small children.

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Dear Parents and Supervising Adults!

Children want to explore, understand, and create new things. They want to try things and do them by themselves.

They want to learn! They can do all of this with Thames & Kosmos experiment kits. With every single experiment, they grow smarter and more knowledgeable.

Meet the Omega Family!

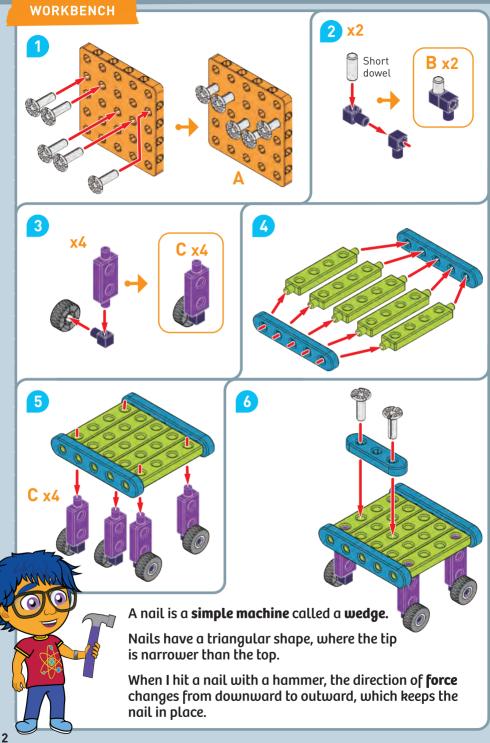
Ty and Karlie Omega are siblings. They live in a small city called Makersville. Ty and Karlie's dad is a writer. He writes science fiction stories. Their mom is a mechanical engineer. She designs big machines used in factories.

They live in an awesome warehouse filled with tools, equipment, and building materials. There are always a number of projects going on in the warehouse. Ty loves figuring out how things work. Karlie loves building things.

Now it's time for Ty and Karlie to build their very own workbench where they can keep their own tools.

Ty can't wait to figure out how all the tools work, and Karlie is excited to see all the fun models she can build!

'Yay! Let's go



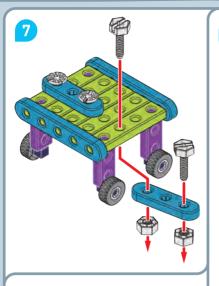
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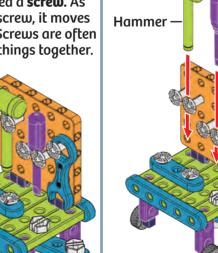


Our workbench is on wheels so that we can move it from project to project. We have an orange **pegboard** to store our hammer, screwdriver, and wrench.

Done.

A bolt is a type of **simple machine** called a **screw**. As you rotate a screw, it moves up or down. Screws are often used to hold things together.

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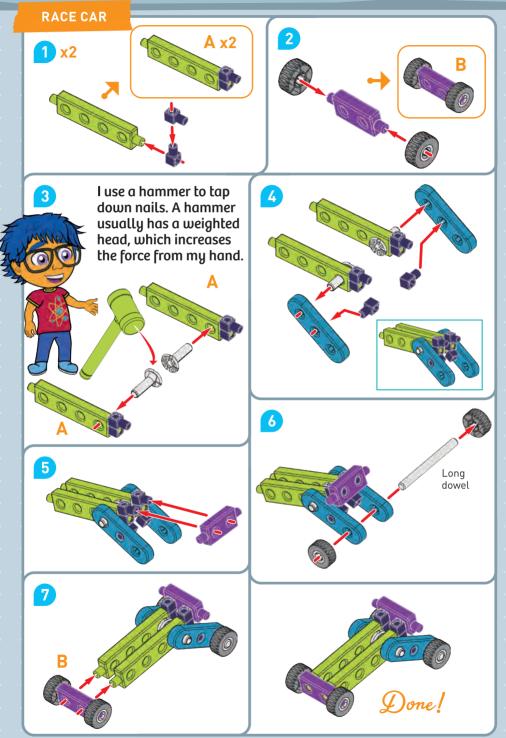


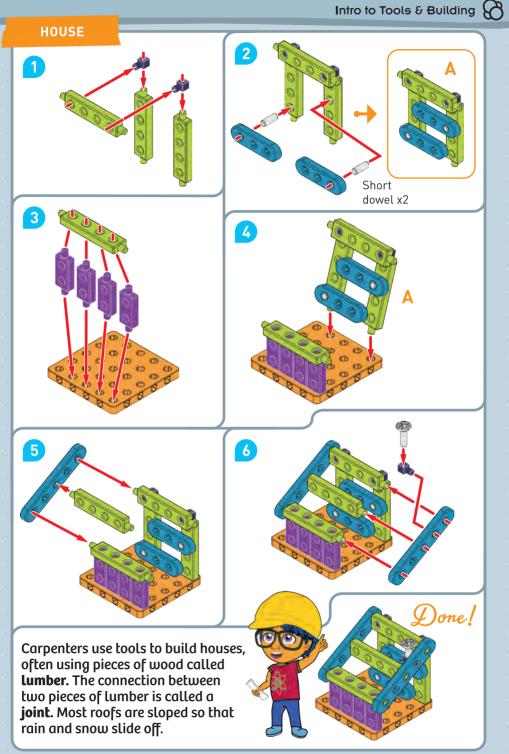
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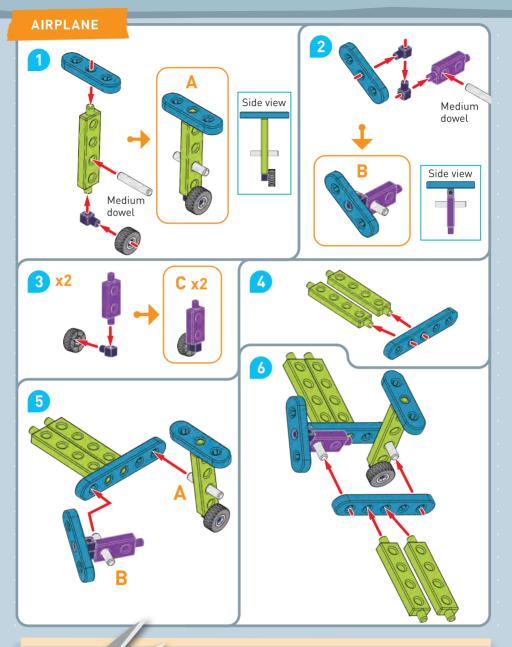
Bolt In Nut

- Screwdriver

Wrench

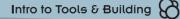


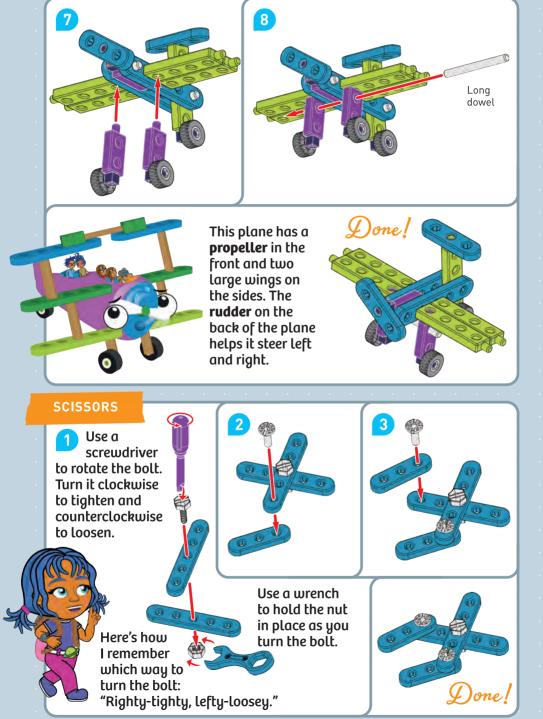


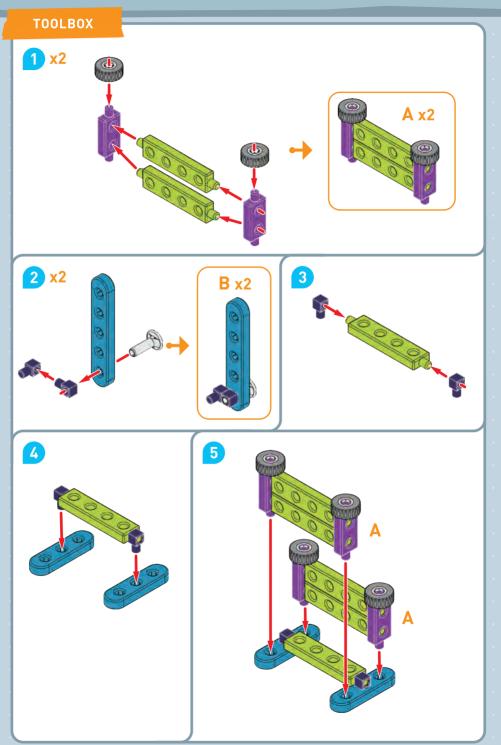


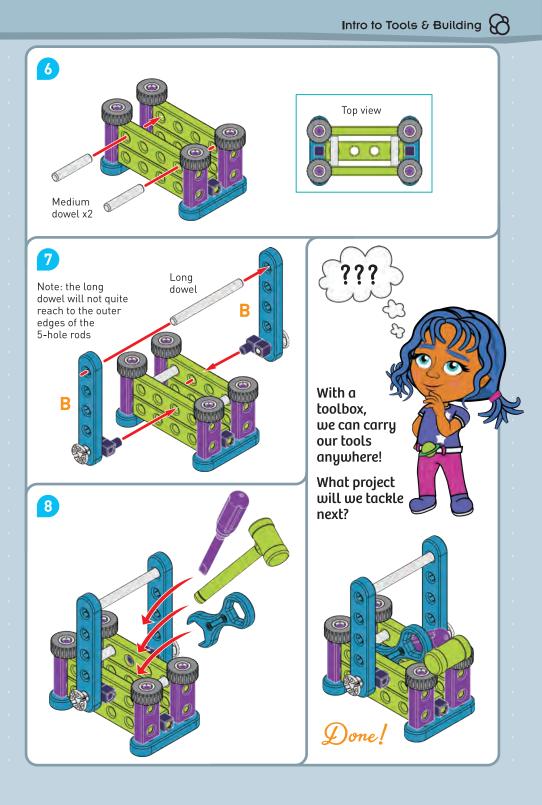
Fulcrum

A scissor is a **simple machine**. Actually it is two simple machines in one! Each of the blades is a **wedge**, and the two arms that squeeze together are **levers**. The point where the two arms connect and pivot around is called the **fulcrum**. Levers increase the force that is applied to them. 7

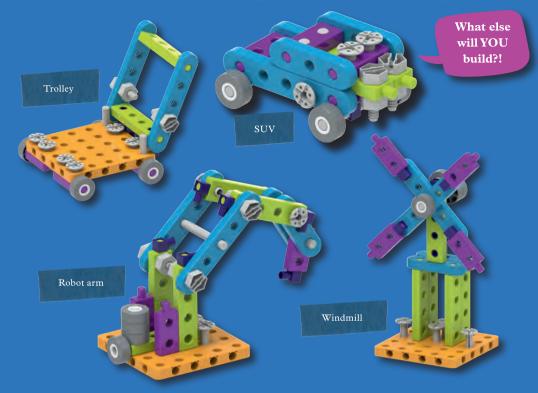








Endless possibilities for open-ended creative play



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