

STEM Qboidz & Junior Robotics Set

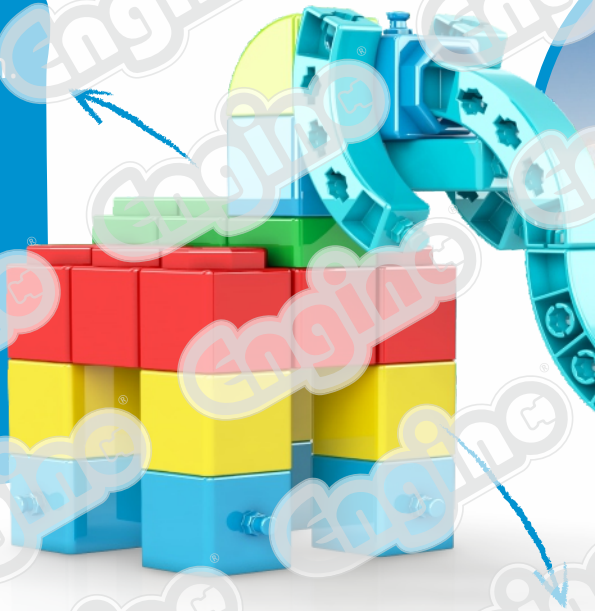
E16.1 Robotics Lessons

The **Qboidz & Junior Robotics education set** is the ultimate solution for Preschool & early Primary school students of ages 5-7. It is the combination of the large tub of Qboidz (E10) which allows more than 90 models to be created from the younger age of 3, and the Junior Robotics set (E15) that steps up the complexity for the higher ages and includes the ERP MINI controller, sensors, light and motor! The merging of creativity with the ability to code and animate models, provides a unique combination for open-projects and multi-level thinking.



Lesson: Elephant

Elephants are the largest mammals that walk the earth. They have a big proboscis (a large mobile snout, nose or trunk), the largest ears in the world and live in herds. The oldest female elephant leads the herd through all kinds of terrain searching for food, water and safety.



Did you know?

The elephant's gestation period (pregnancy) is 22 months and longer than any other land animal in the world. A newborn elephant baby can weigh up to 260kg (570 pounds). Baby elephants stand up shortly after being born usually with a little help from mom or aunties.



Find the "Elephant" building instructions in the respective "Building Models" section.

Elephants eat large quantities of leaves and other vegetation. Their trunks continue to grow their whole life just like the human nose. They communicate with each other through chest rumbles and bugling and can live for 60 years or more.



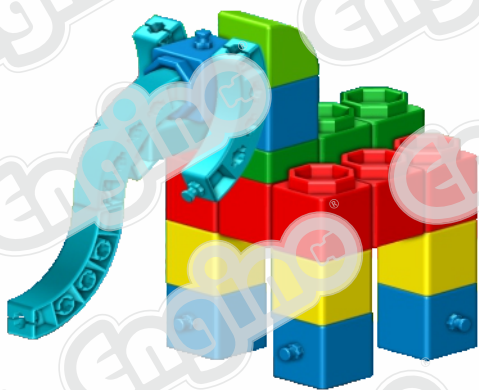
Follow the dots number by number to draw an elephant.



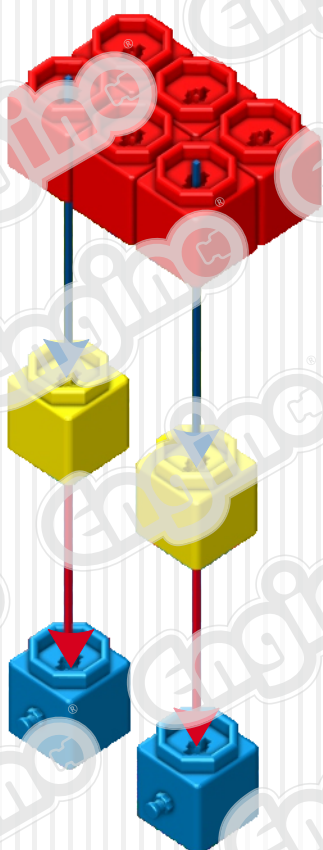
Color the picture.

 Draw your own elephant.

 Create the above elephant with Engino Qboidz.



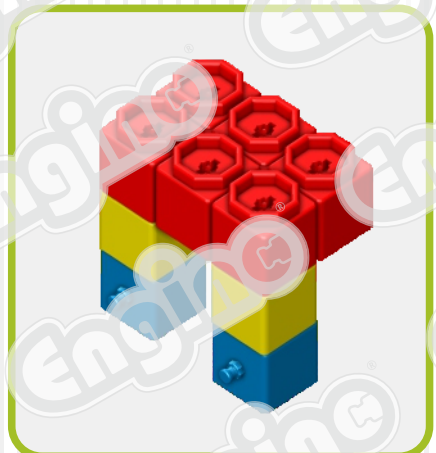
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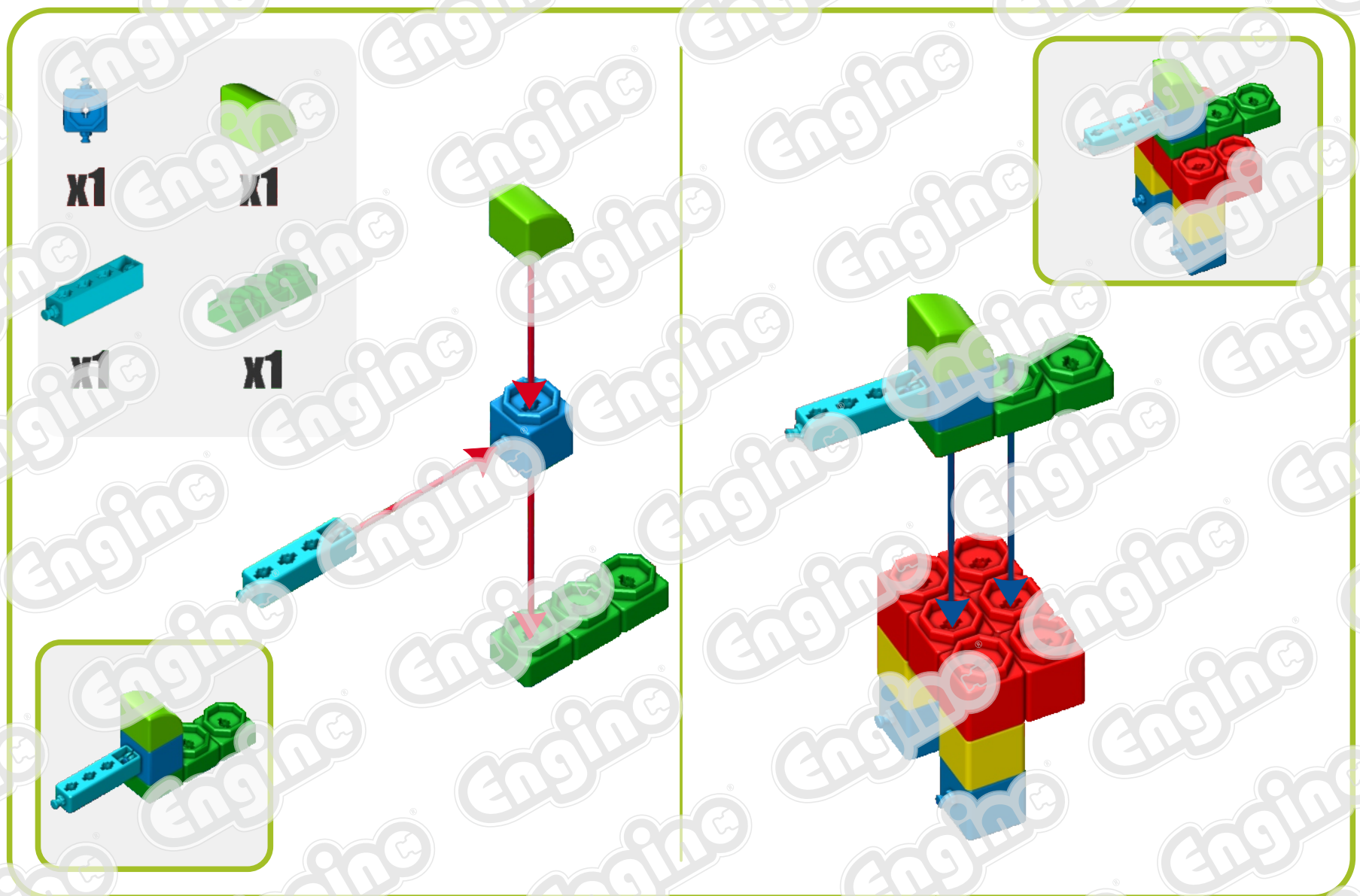



x2


x2


x1



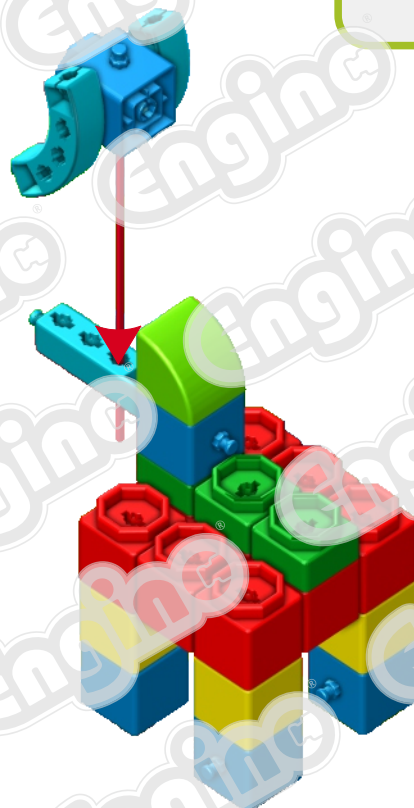
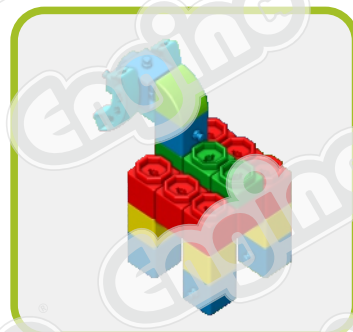
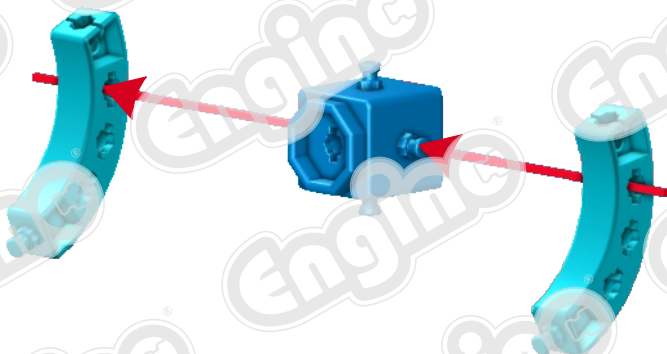




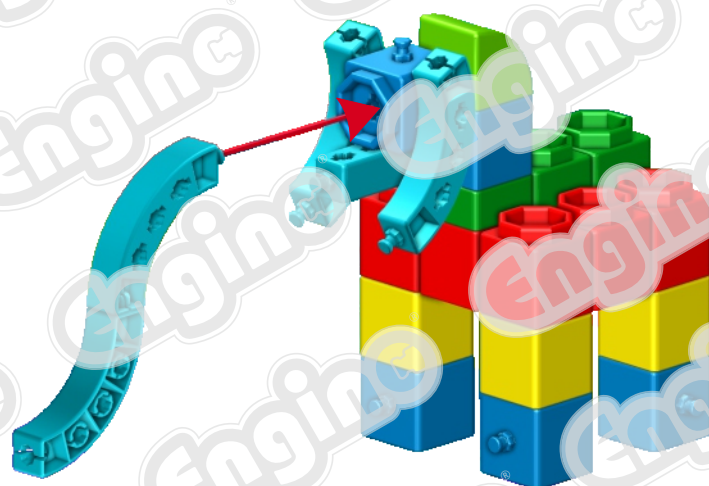
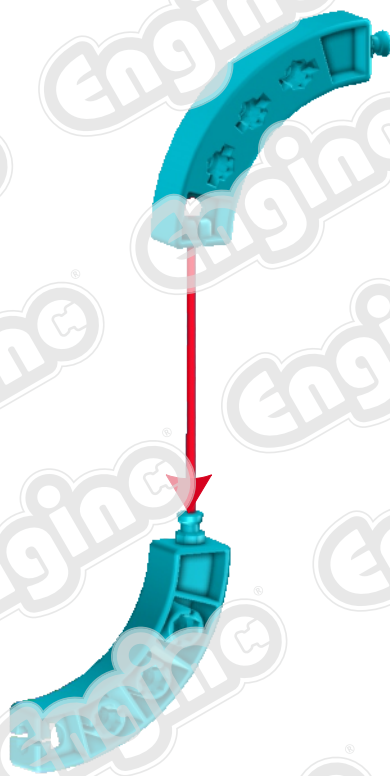
x1



x2



x2



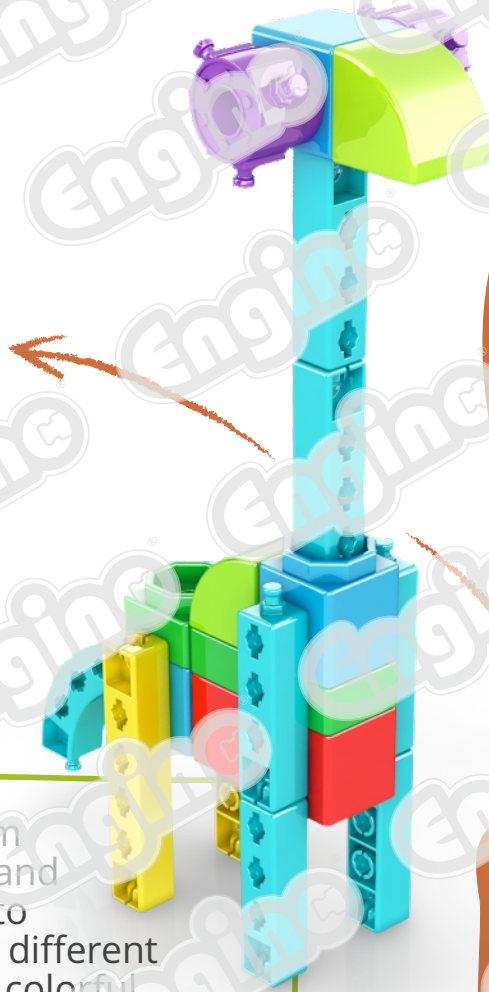
Lesson: Giraffe

Giraffes are the world's tallest animals. A group of giraffes is called a tower. They have very long necks and their tongue is so dexterous, it can pull leaves from trees.



Did you know?

Giraffes use their 45-50cm (18-20 inch) long tongue and the roof of their mouths to feed on a varied range of different plants and grasses. Their colorful tongue can be black, blue or purple with a pink base.



Find the "Giraffe" building instructions in the respective "Building Models" section.

Giraffes have a hard time drinking water because they must spread their legs really wide so they can lower their heads enough to get to water. The giraffe's biggest enemy is the fierce lion.



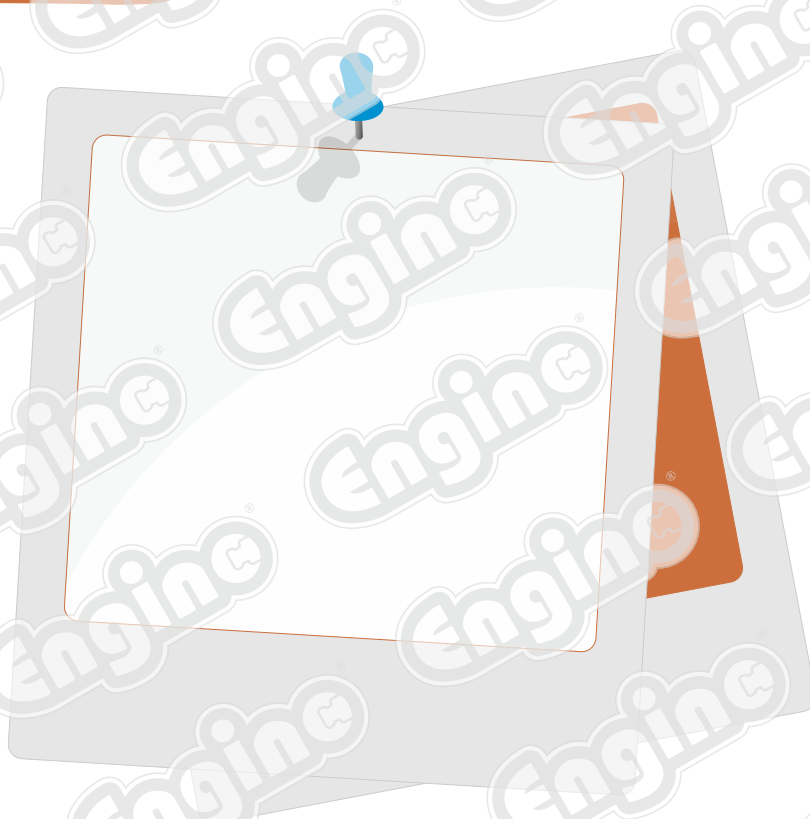
Follow the dots number by number to draw a giraffe.

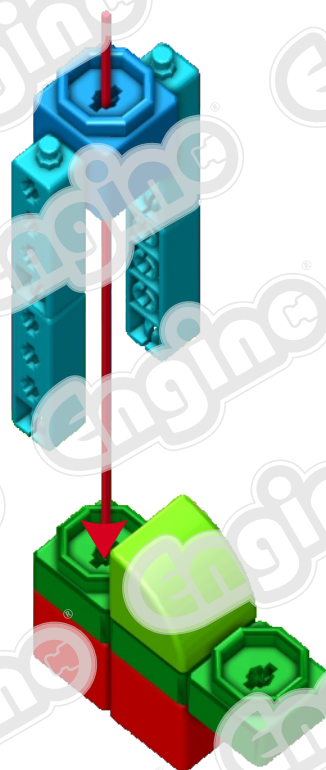
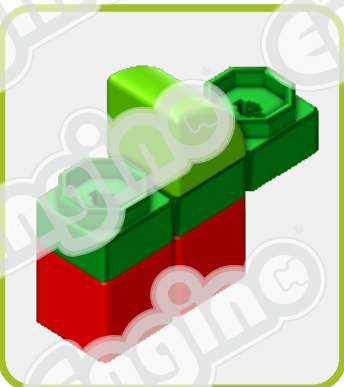
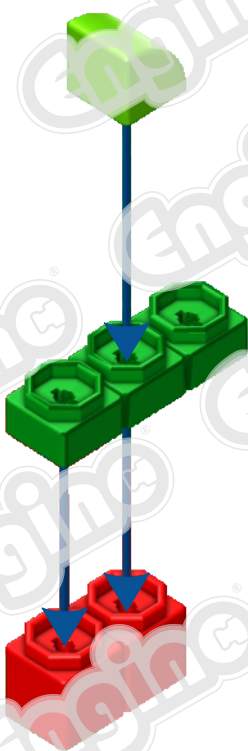
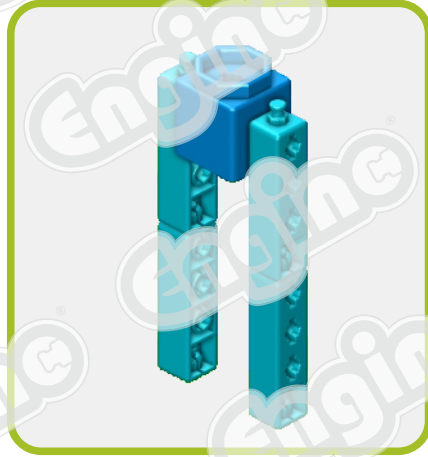
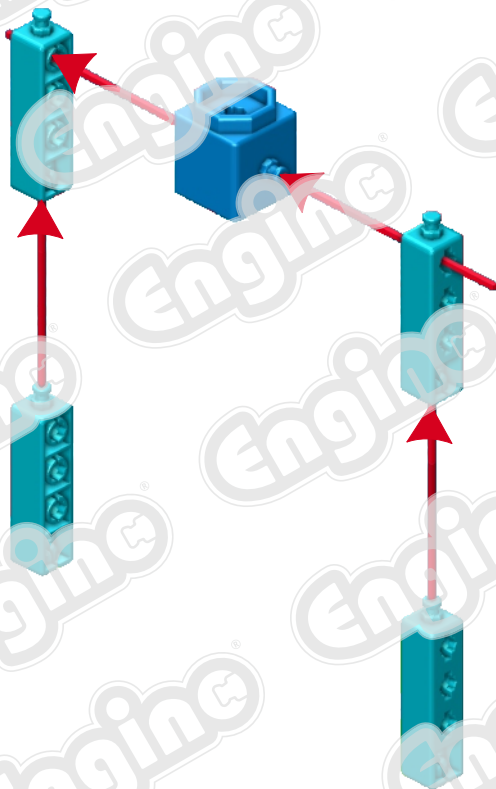
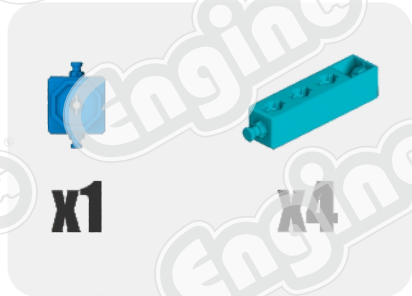


Color the picture.



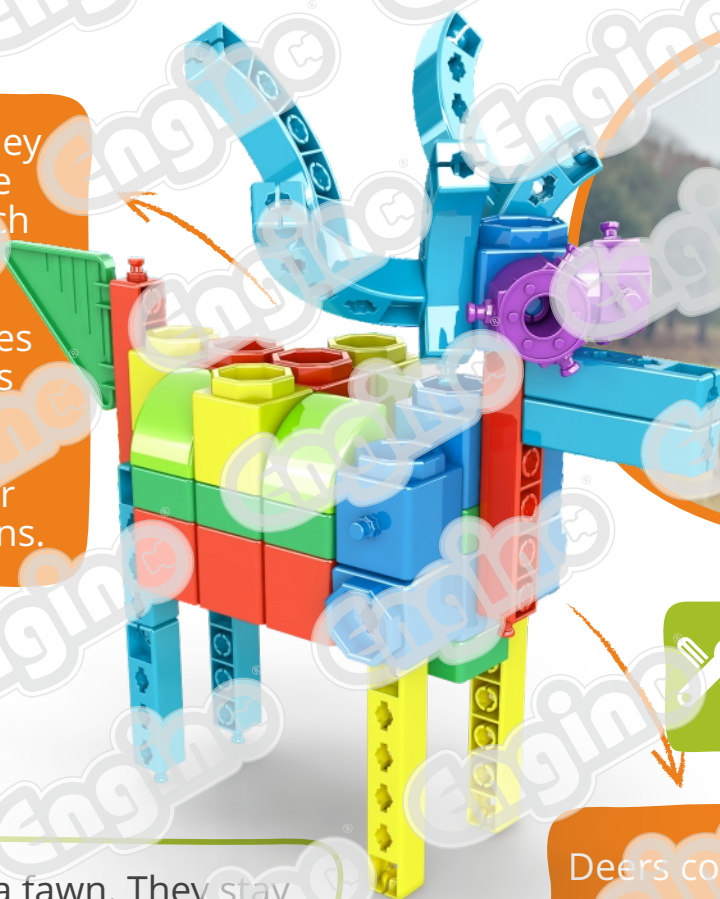
Find an image of a giraffe and stick it in the box below.





Lesson: Deer

Deers are ruminants, so they eat food and ferment it like bread in their front stomach and then regurgitate it and chew it again. They have small heads, large eyes and thin legs. The male has horns on its head like branches and he regrows them every year. The older the deer the larger his horns.



Find the "Deer" building instructions in the respective "Building Models" section.



Did you know?

The deer baby is called a fawn. They stay hidden with their dappled fur and under vegetation for their first 4 to 5 weeks. The fawn's mother nurses them for at least 8 weeks.

Deers communicate with each other using lots of different sounds including grunts, squeaks, squeals, and bleats. Male deer grunt, snort and wheeze all in one breath.



Follow the dots number by number to draw a deer.



Color the picture.



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