

Gigo Learning Lab's complete series includes 20 individual packages, as well as five school sets. The special features of Gigo's Learning Lab are as follows:

- 1. Using GIGO's "building block" construction-based curriculum, every class has a ready-to-assemble model, and includes time designed to promote individual creativity.
- 2. Promotes thinking outside-the-box of the traditional educational framework by learning innovation through play!
- 3. We are all innately good at something, so we should take into account both individual development and the ability to work as part of a team effort.
- 4. Course levels are designed from elementary to difficult, combining a life sciencesbased curriculum with applications from daily life.
- 5. Experiment using Gigo's "building blocks", which can be used over and over again, saving both time and effort.
- 6. Comes with Gigo's newly developed 3D Smart Manual, which makes learning how to intelligently assemble each model easier than ever before.
- 7. Learning Lab's Cloud Platform allows systematic recording of learning progress.

We hope that kids can enthusiastically learn scientific knowledge through fun handson experience, developing their problem-solving abilities, as well as a positive attitude towards science. Our mission is to help children apply their newfound knowledge to daily life, furthering their innovational skills and abilities.

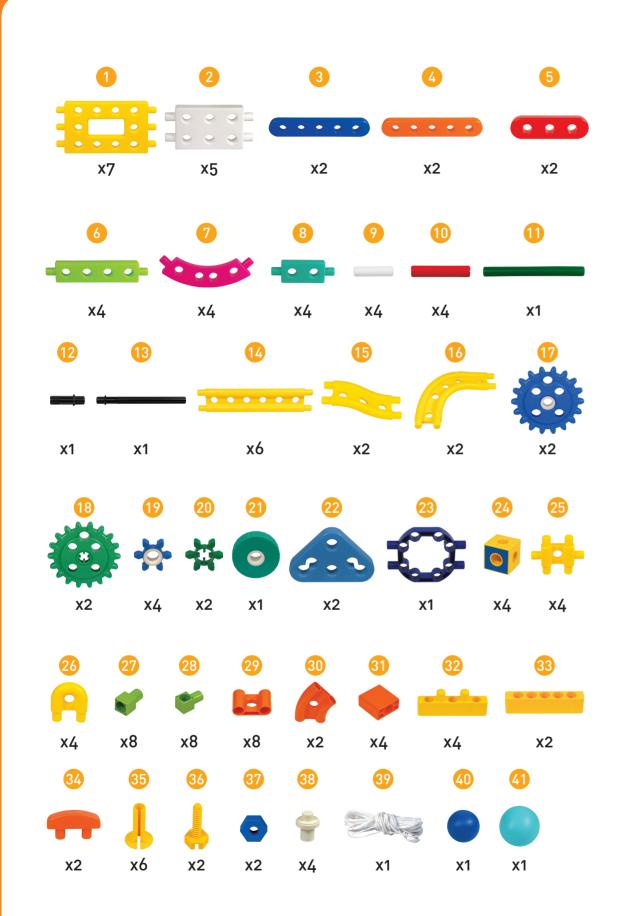
For any questions or inquires, please email to LL@mail.gigo.com.tw



Index (v1.0) 19. Trap Track Preface 20. Creativity Contest- Ball Track Index Parts List 21. Aim & Hit 22. Meteorite Impact 01. Hurdling









- 1 10-hole Block
- 2 6-hole Block
- 3 5-hole Rod (Blue)
- 4 5-hole Rod (Orange)
- 5 3-hole Rod
- 6 4-hole Rod
- 7 4-hole Bended Rod
- 2-hole Rod
- 9 Round Bar 6CM
- 10 Round Bar 8CM
- 11 Round Bar 16CM
- 12 S Cross Axle
- 13 L Cross Axle
- 14 Straight Track
- 15 Slide Track
- 16 Curved Track
- 17 18T Rotation Gear
- 18 18T Drive Gear
- 19 6T Rotation Gear
- 0 6T Drive Gear
- 21 L Wheel
- 22 Triangle Block
- 23 Ring Connector
- 24 L Cube
- 25 Multi Direction Connector
- 26 Track End
- 27 Vertical Adaptor
- 28 Lateral Adaptor
- 29 Track Connector

- 30 Curved Track Connector
- 31 Rod Connector
- Flat Rod with Pegs
- 33 Flat Rod
- 34 Arch with Pegs
- 35 Nail
- 36 Screw
- 37 Nut
- 38 Track Fixer

Cord 200CM

- 40 Ball 4CM
- 41 Ball 5CM

04

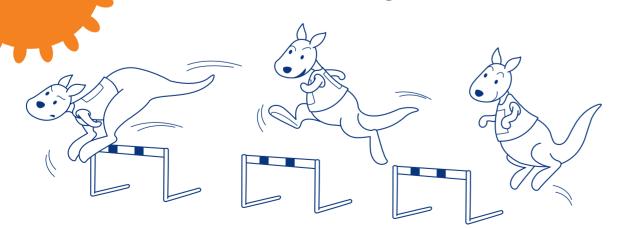
Session 01 Hurdling



Hurdling is a track event wherein an athlete runs and jumps over a series of hurdles. It is one of the sports events in the Olympics.



A little kangaroo hurdles. Please make its movement in chronological order.





Parts List



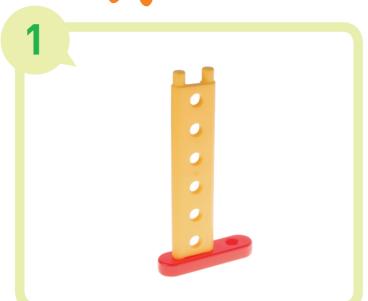


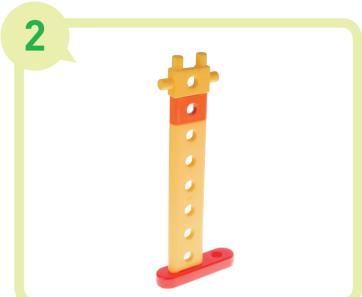


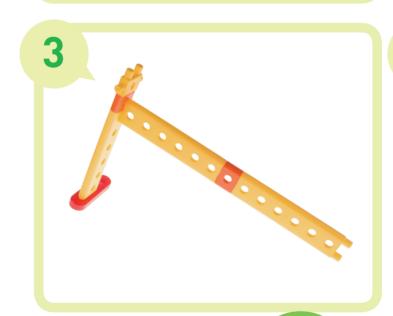




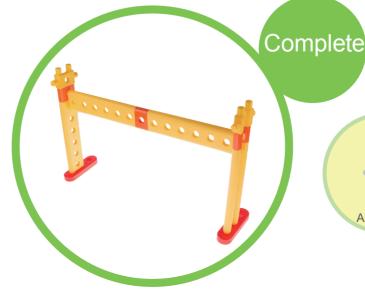


















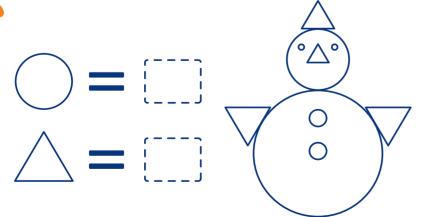
Session 02 Skiing



Skiing on snow is an exciting sport!



Please color the circles on the snowman blue, the triangles red and then count how many circles and triangles there are.





Parts List

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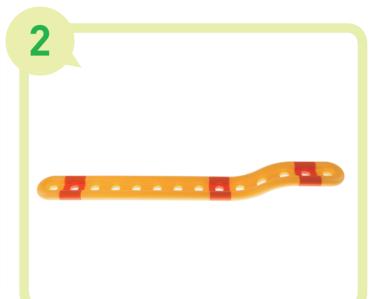


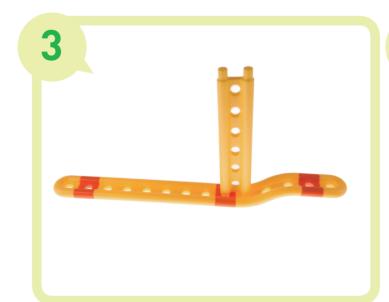




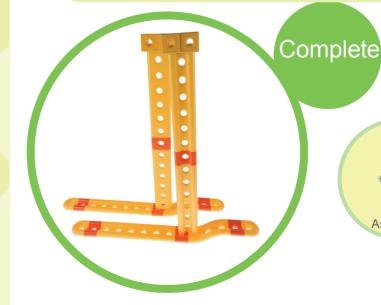


















Session 03 Hockey



Hockey is a kind of sport in which a player aims at the goal by controlling the puck with a hockey stick.





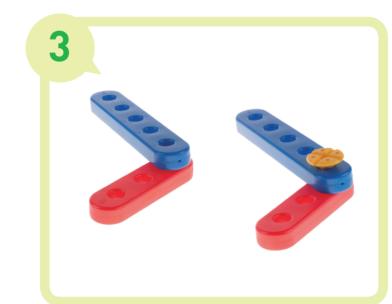




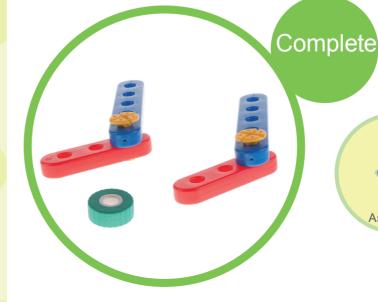


















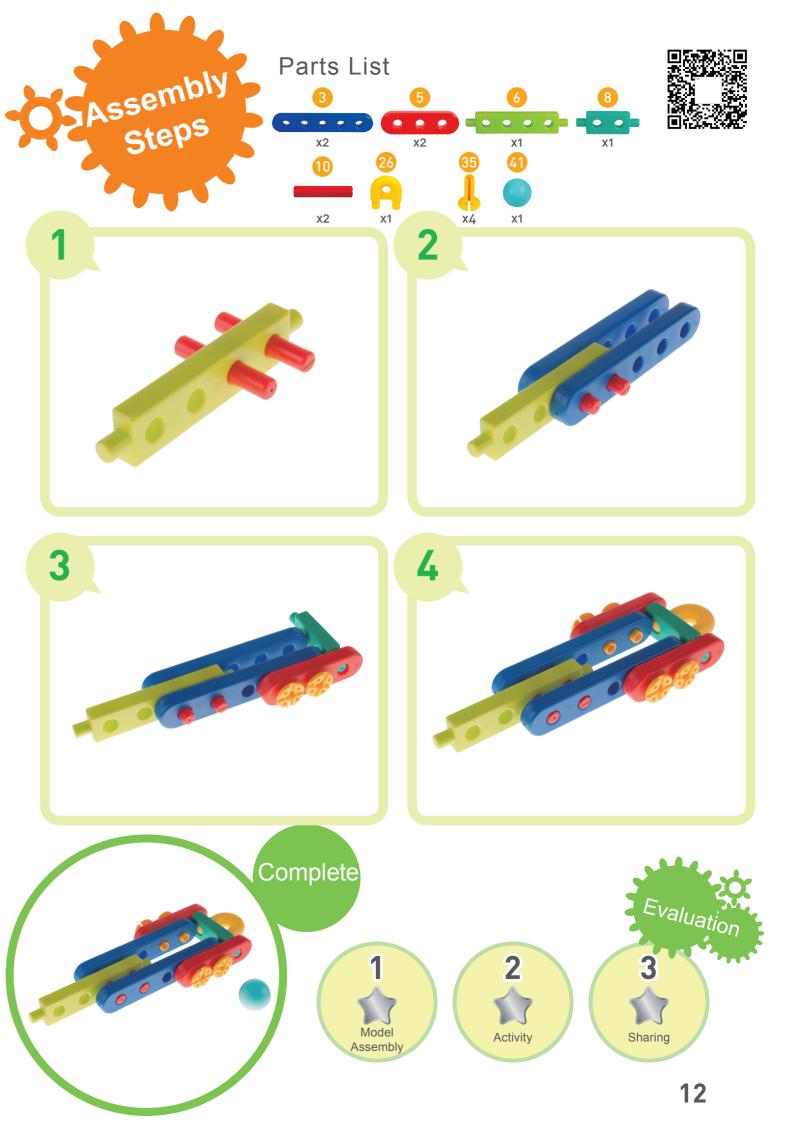
session 04 Baseball

Learning Subject
Baseball games,
Aesthetic design

Baseball is a kind of sport that combines pitching and hitting. The players include a pitcher, catcher and hitter.







Session 05

Creation Contest - Basketball

There are five players from each competing team In a basketball game. A score is made only when the ball is thrown into the basket.

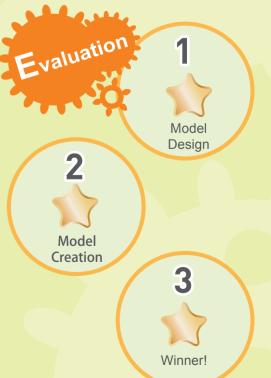




Creation Time

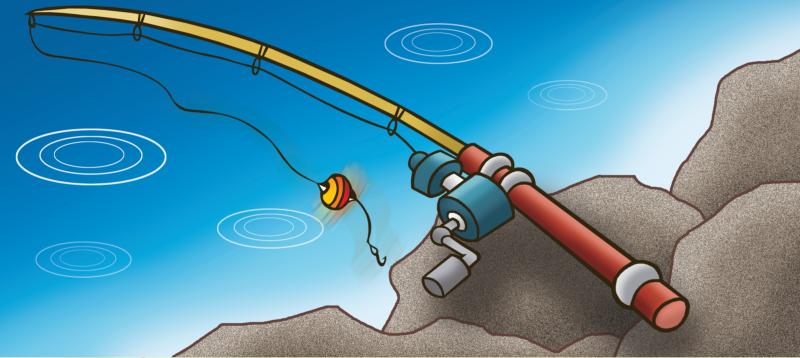
A basketball game is really fun. Kids, make your own basketball and basketball hoop stand for an exciting basketball game!

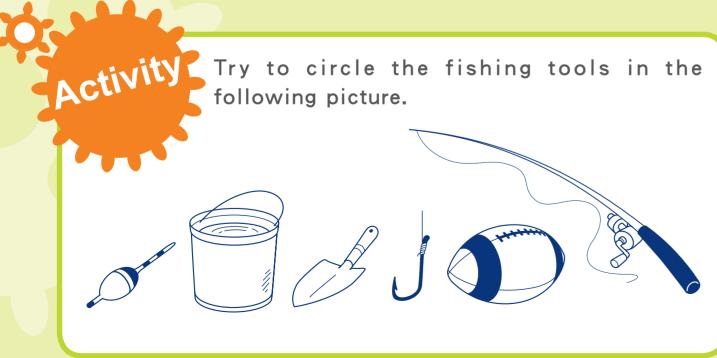


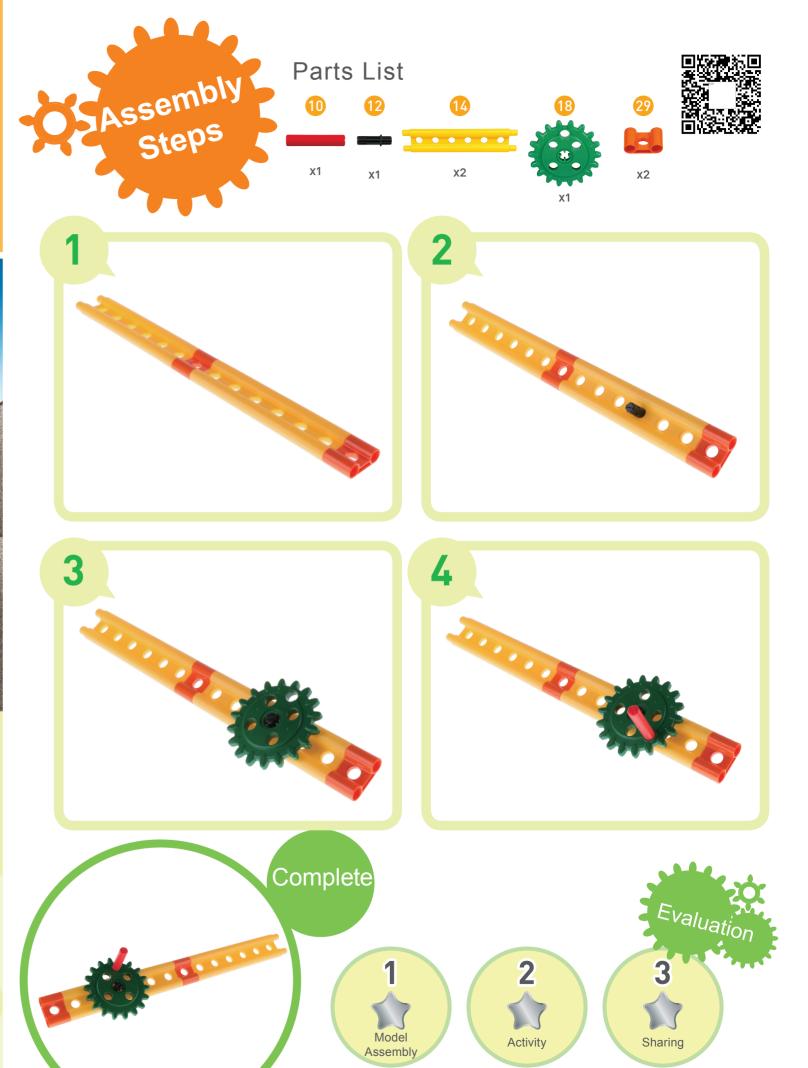


Session 06 Learning Subject Fishing, Tools

Patience is important in fishing. Wait for the fish to take the bait off the fishhook.







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Session 07 Roller Skate

Learning Subject Rolling, Logical reasoning capability

Roller skates are commonly used for exercising. They are small and convenient to store.



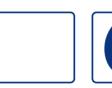


Look for the picture that fills in the blank.































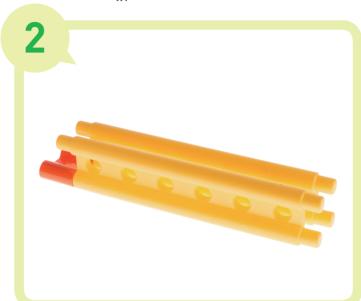


















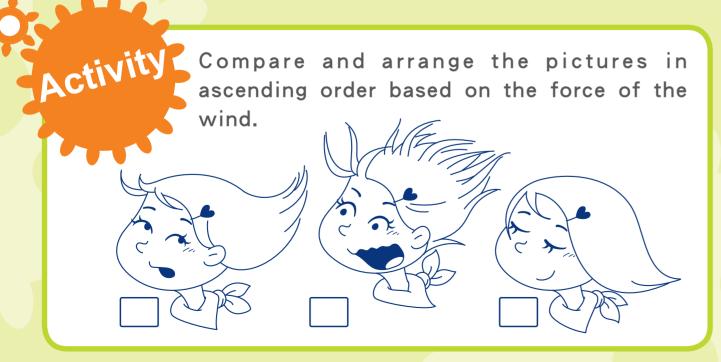


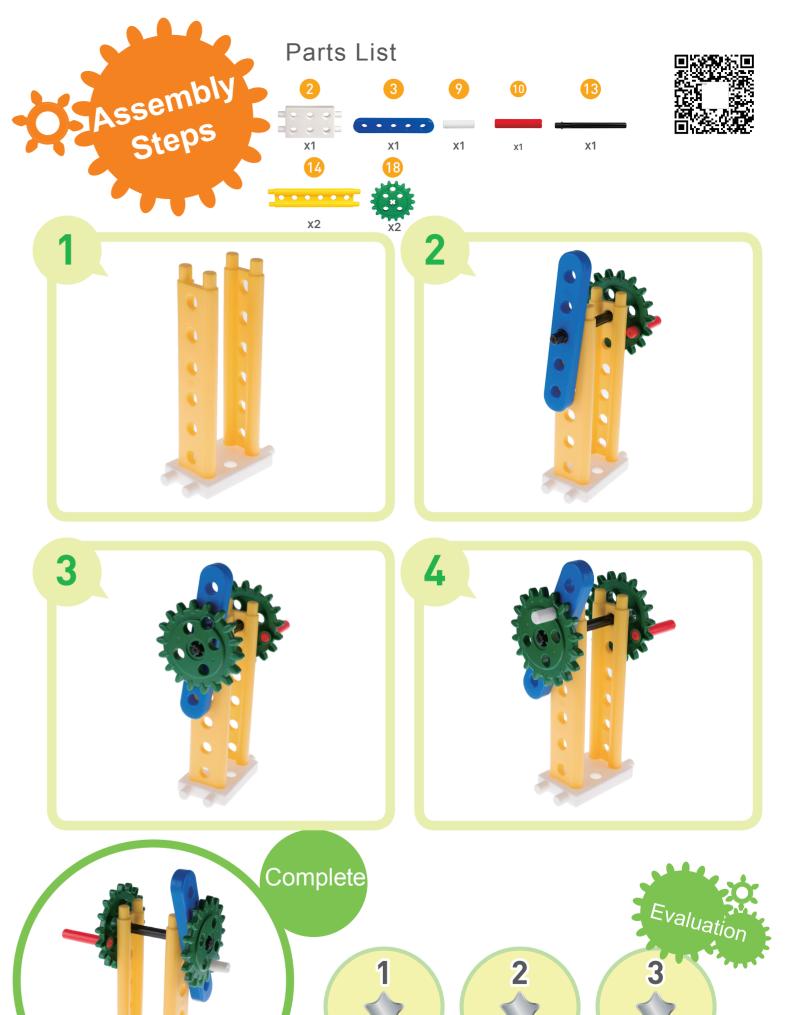
Session 08 Windmill



We can feel the presence of the wind everywhere. The blades of the windmill move while the wind is blowing gently.





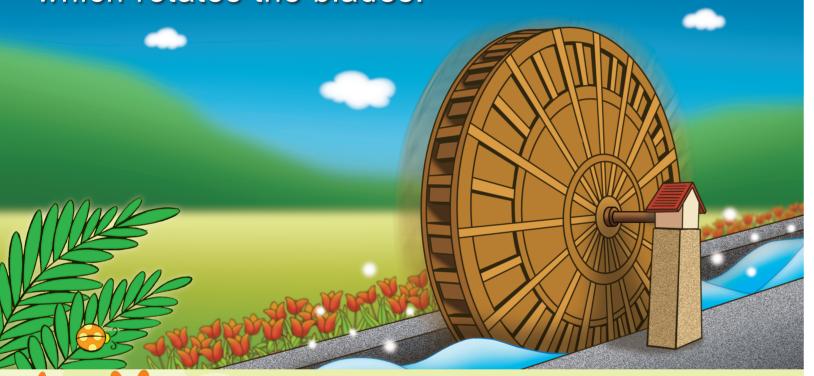


Session 09 Waterwheel

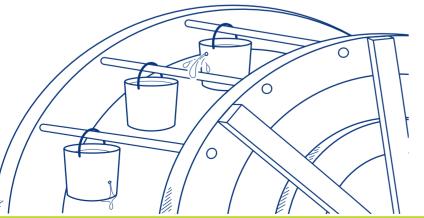
Learning Subject

Potential energy conversion, Problem-solving skills

A waterwheel moves by means of hydro energy which rotates the blades.



There are many buckets hanging on the waterwheel and one of them has a crack. Please fix the crack using a marker pen.



















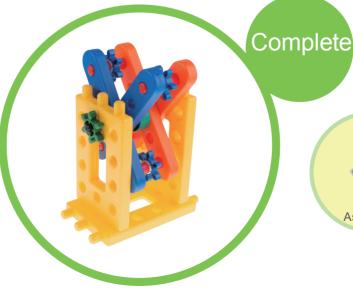














Session 10 Creation Contest Propeller

The propellers of a helicopter are an important design to enable the helicopter to fly up and down.

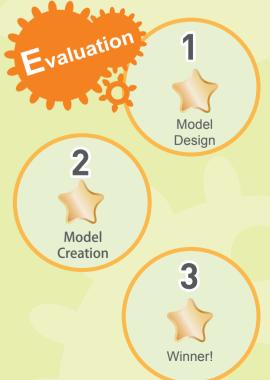




Creation Time

Please assemble a helicopter using building blocks. Do not forget the most important part - the propellers.

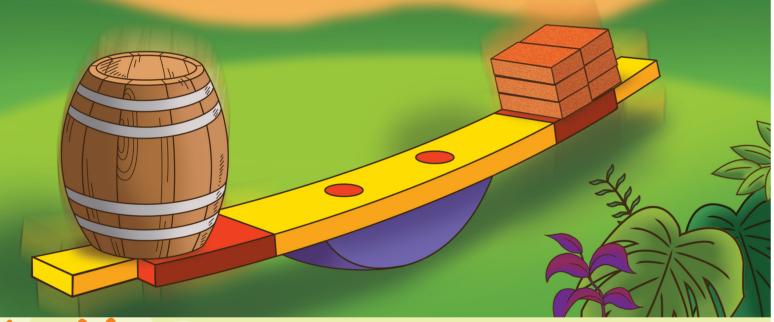


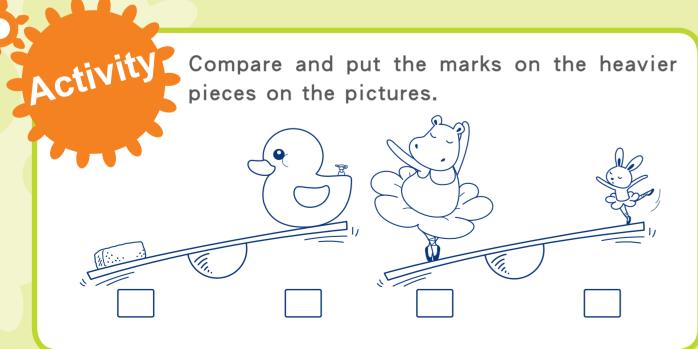


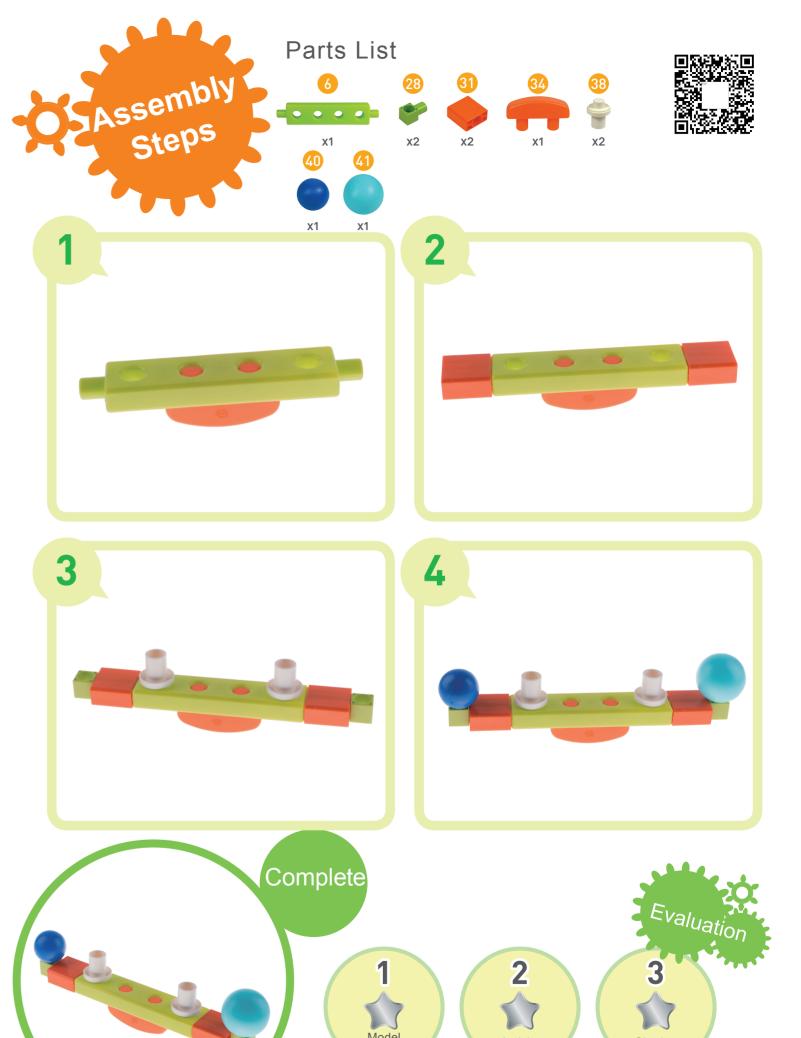
Session 11 Balance Beam



Place twp balls of different weights on each side of the balance beam and guess how the balance beam would move.



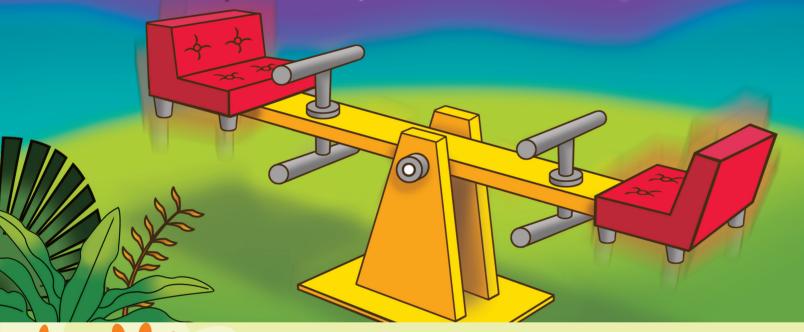


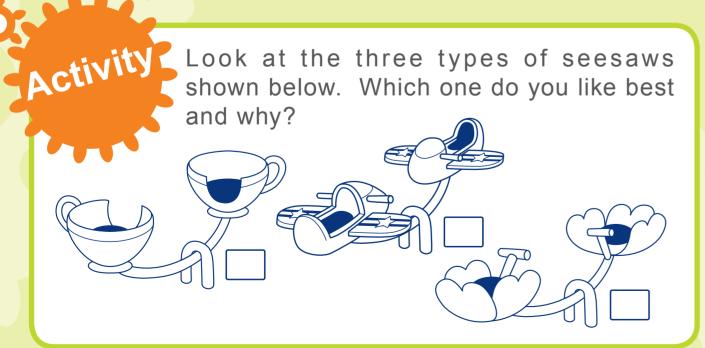


Session 12 Session 12

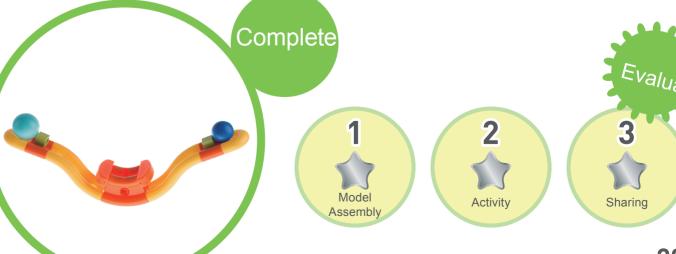


A seesaw is a common recreational equipment in the park. The tilting of a seesaw depends on where a person sits.





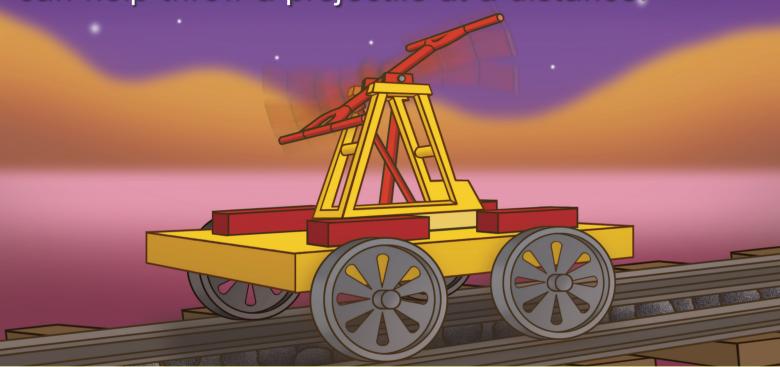


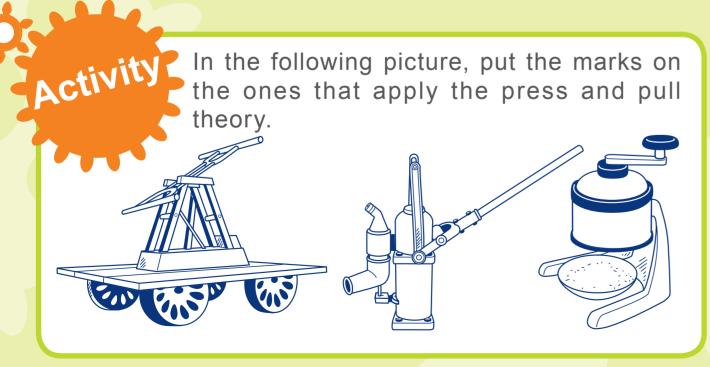


session 13 Trebuchet

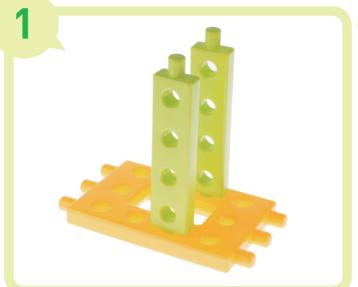
Learning Subject
Press and pull,
Associative ability

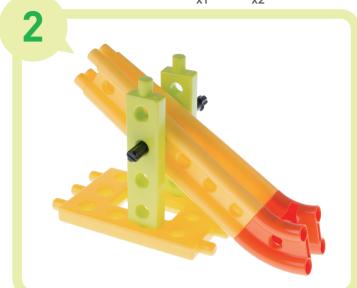
Through its press and pull design, a trebuchet can help throw a projectile at a distance.

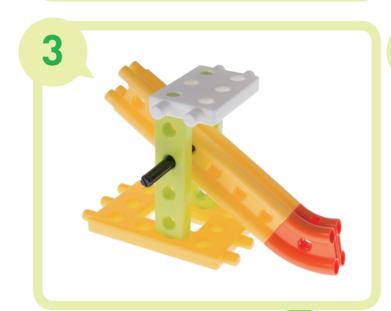


















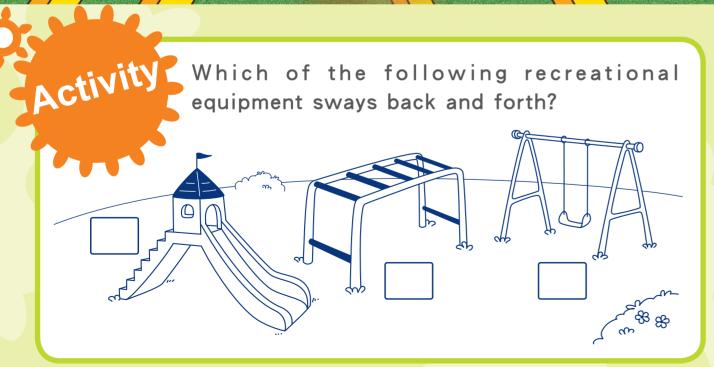


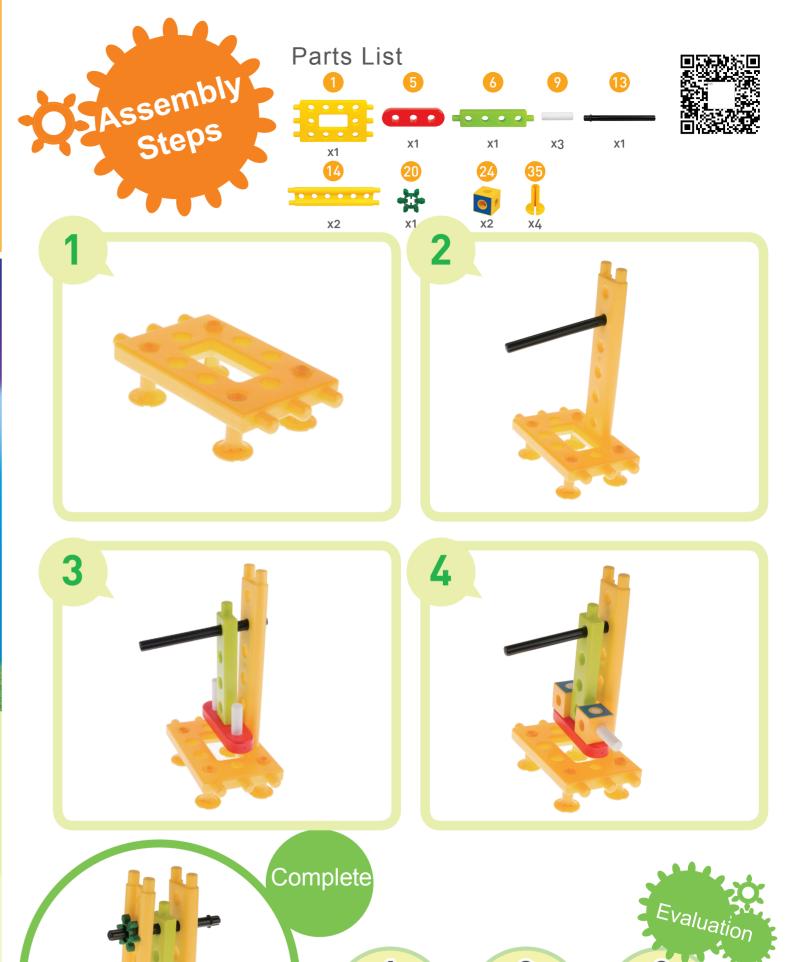


Session 14 Learning Subject Independent thinking

It is terrifying aboard the pirate ship as it suddenly moves down from the highest point.



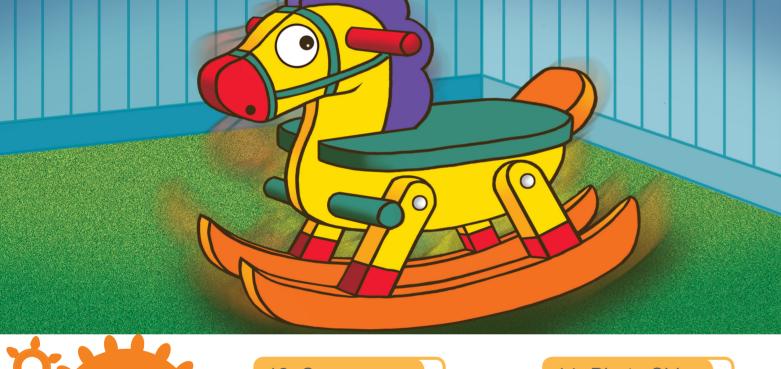




Session 15

Creation Contest - Rocking Horse

Kids love riding on a rocking horse. Now, you can have fun riding it.

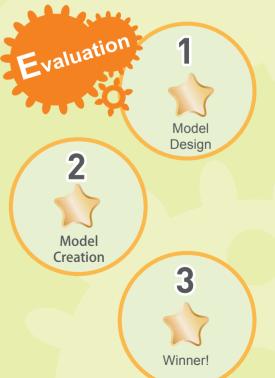




Creation Time

Kids, do you like playing on a rocking horse? Use building blocks to make your horse.

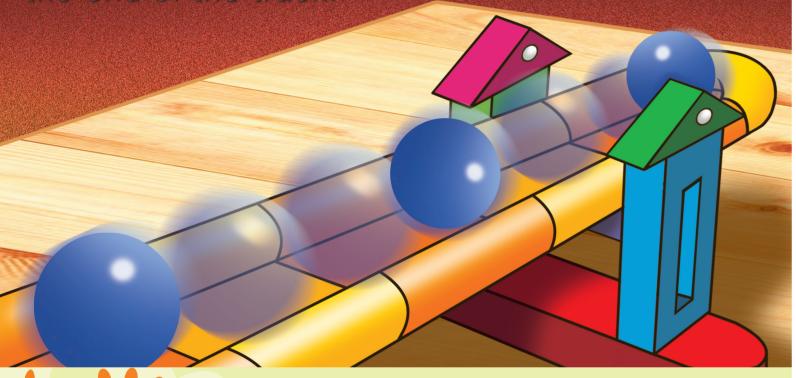


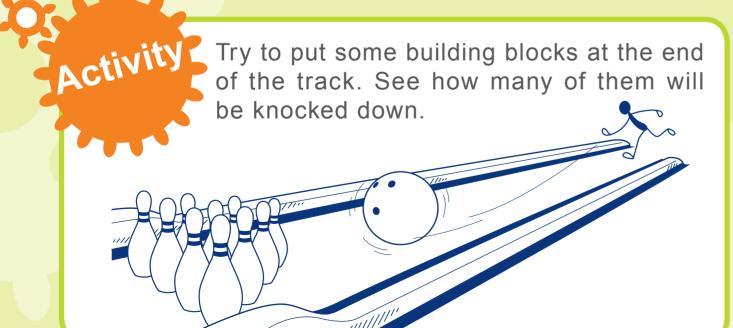


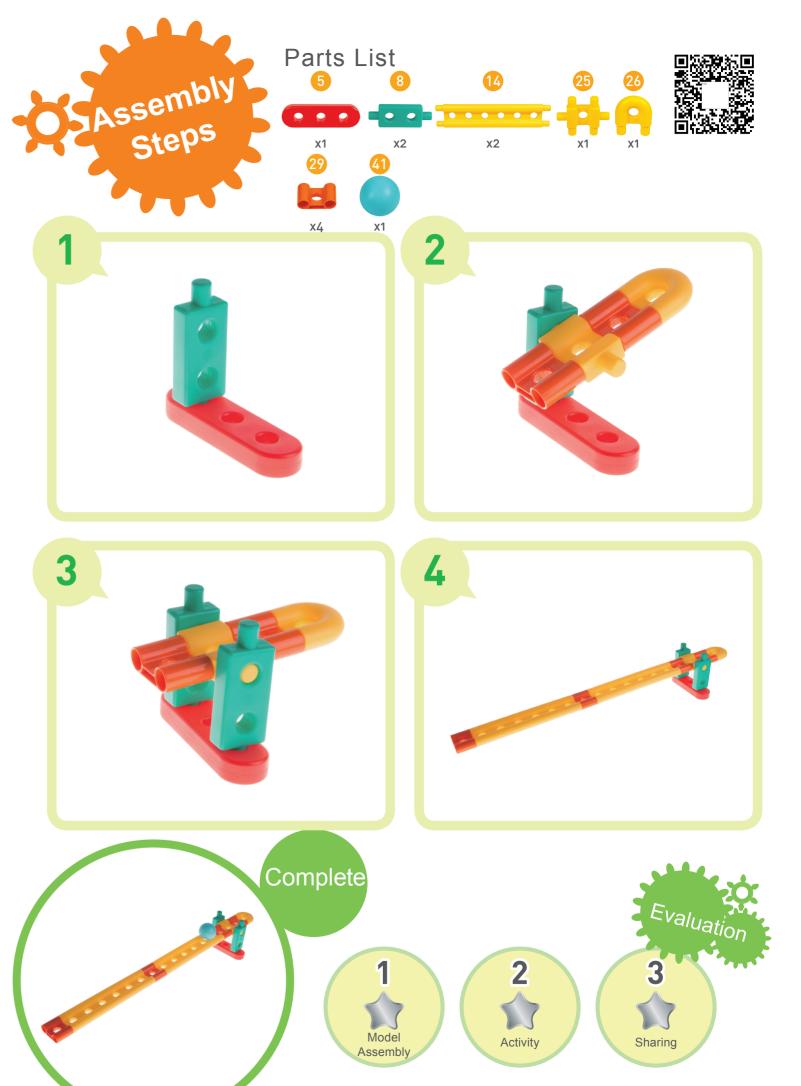
Session 16 Moving Straight



The ball goes straight forward until it reaches the end of the track.

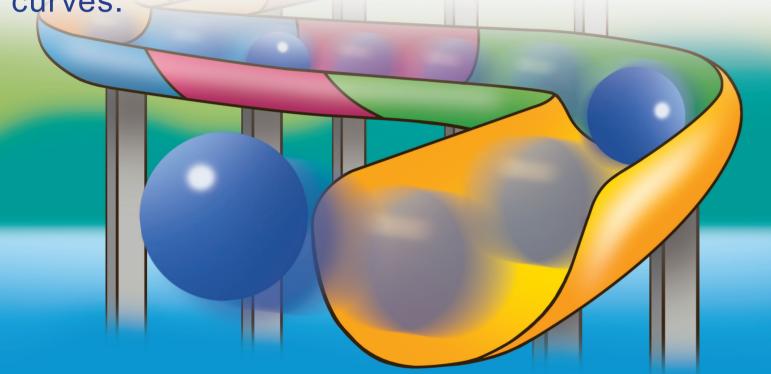


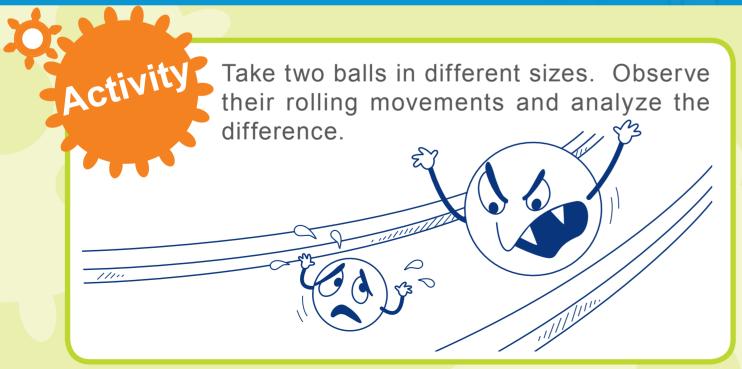


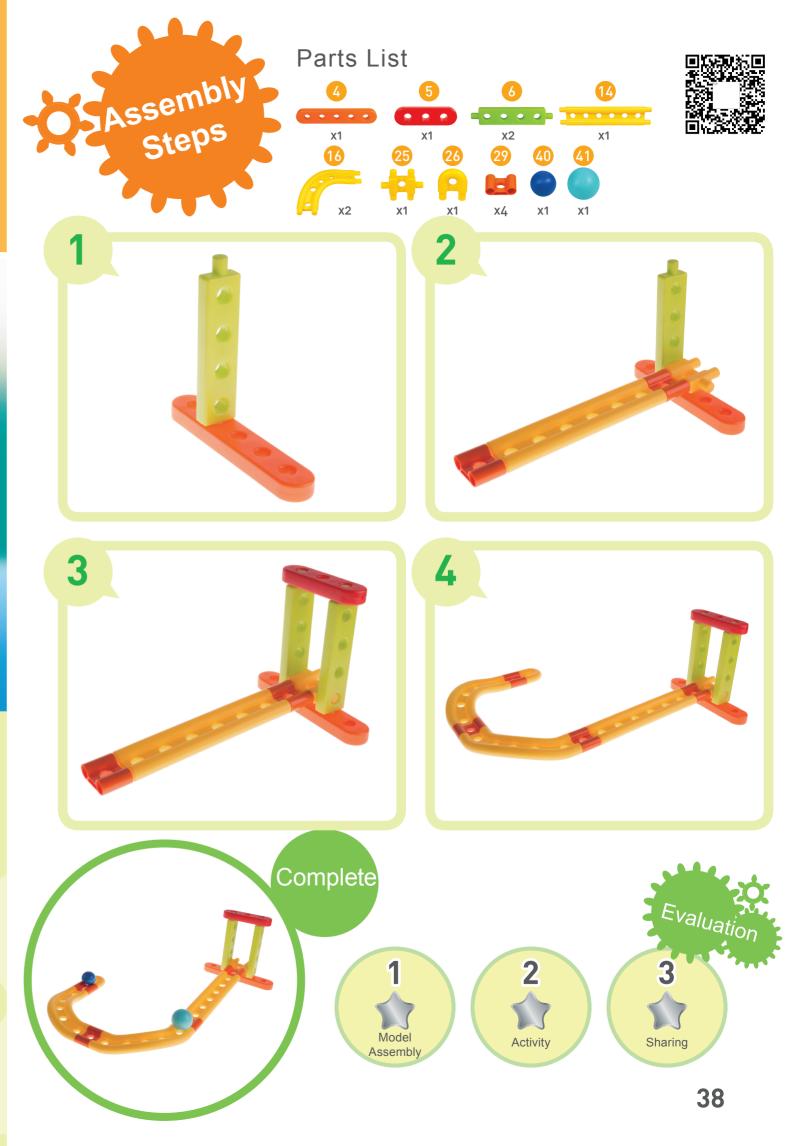


Session 17 Learning Subject Experiment, Observation

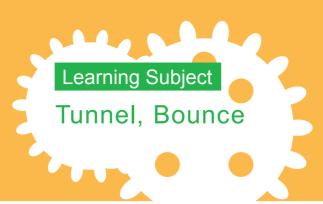
Balls swerve into different paths on the track curves.

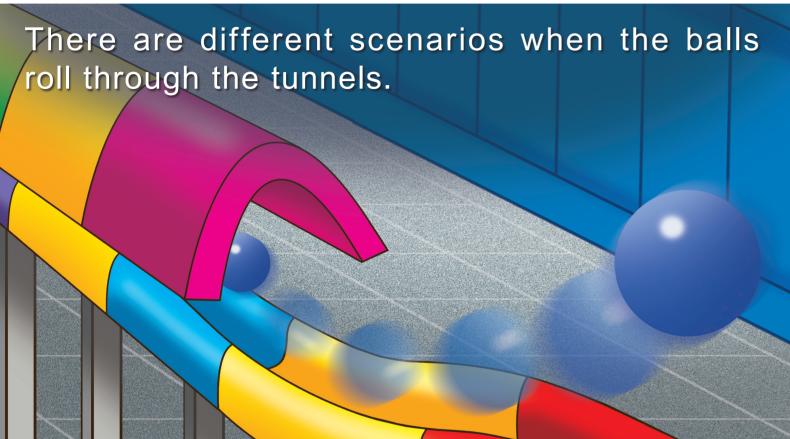


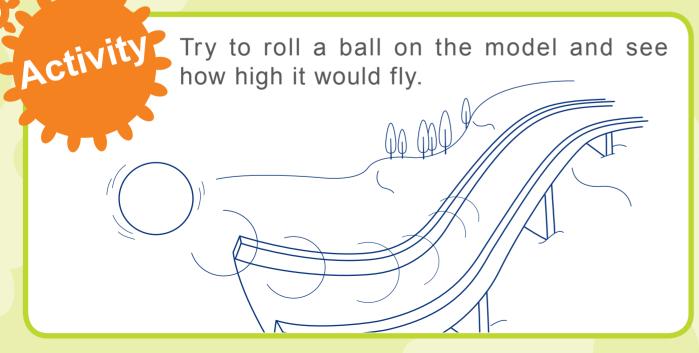




session 18 Tunel













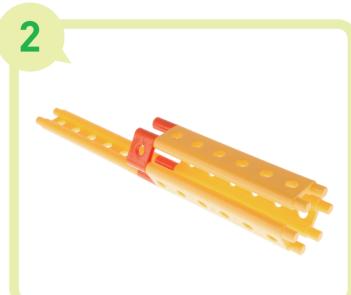






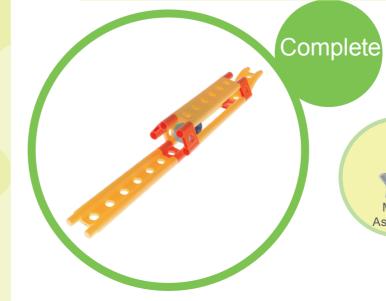










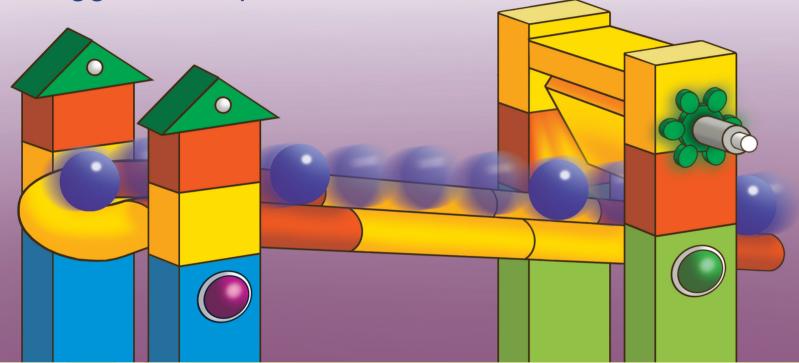


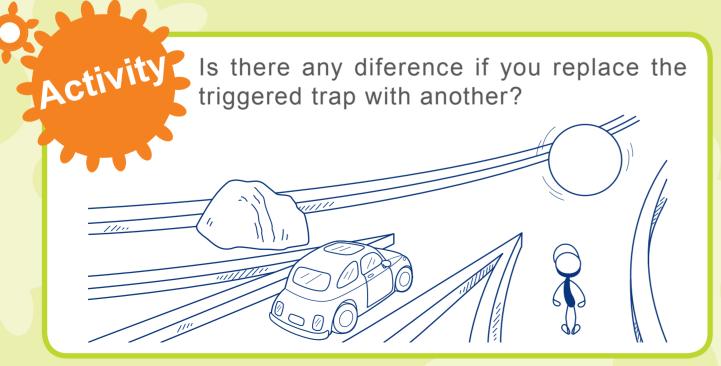


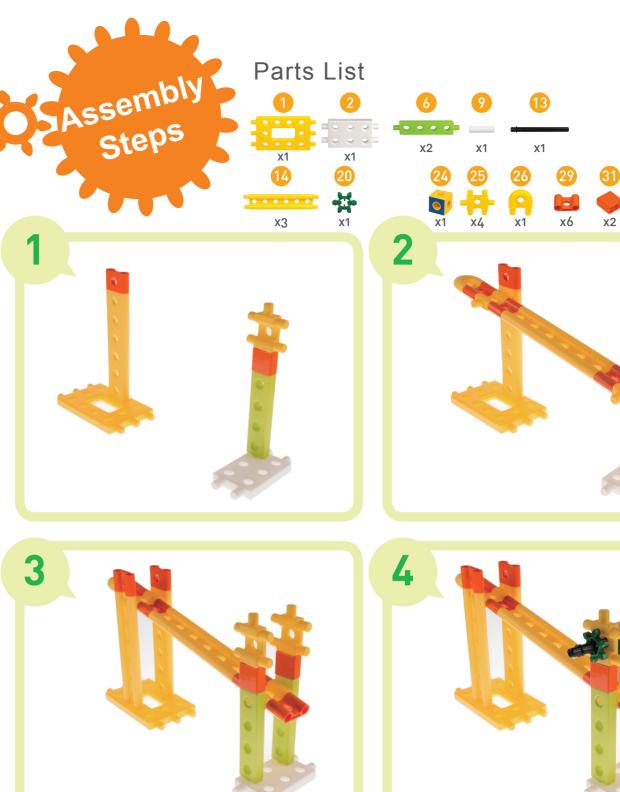


Session 19 Learning Subject Contraption, Trap Track Creativity

Isn't it interesting when a ball rolls down and triggers a trap?















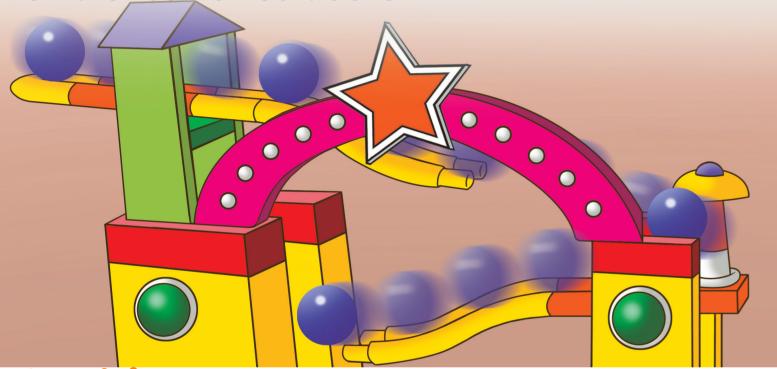


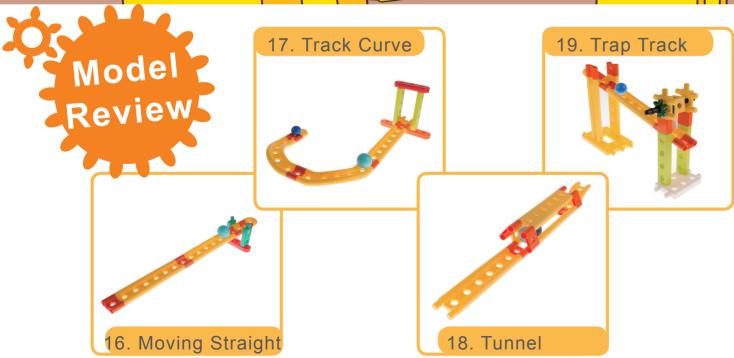


Session 20

Creation Contest - Ball Track

It is really fun when the ball rolls up and down on the <u>combined tracks</u>.

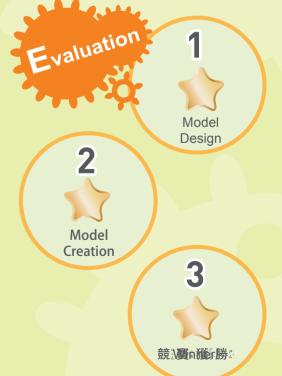




Creation Time

Try to build a track with three layers and see whose ball would reach the destination first.

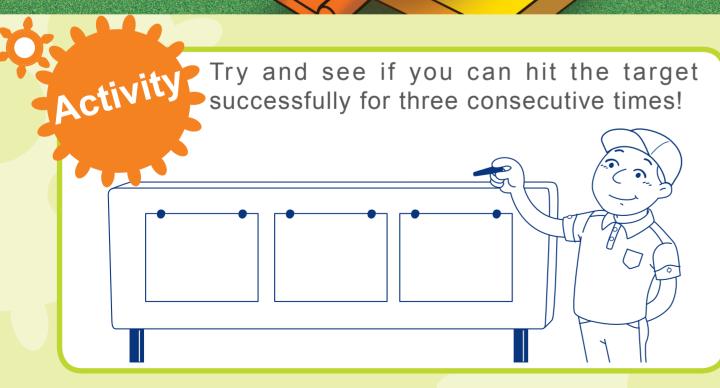


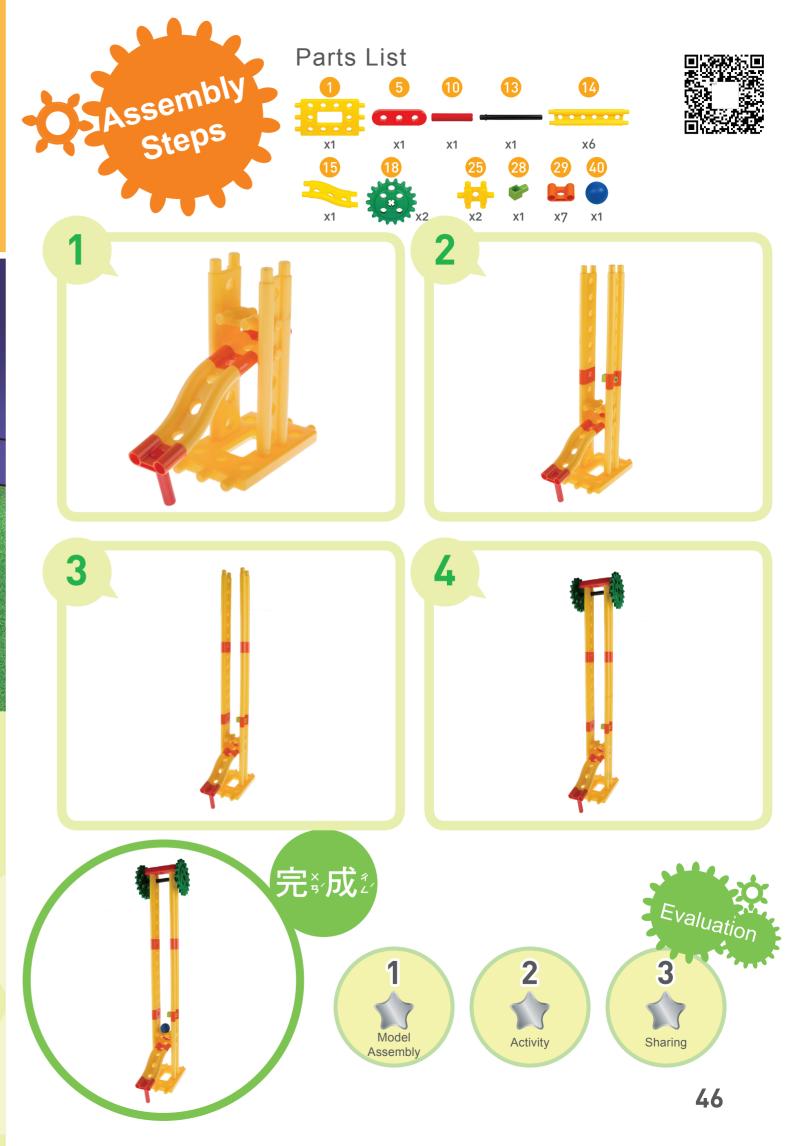


Session 21 Aim & Hit

Learning Subject
Gravity,
Fine motor skills

While dropping the ball that is falling from a high place, see if you can hit the target accurately.

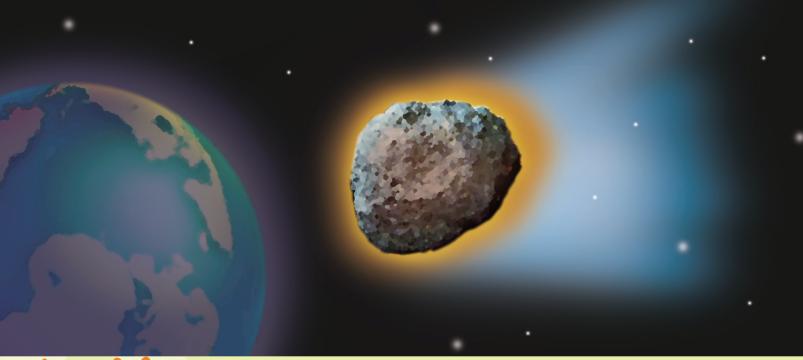




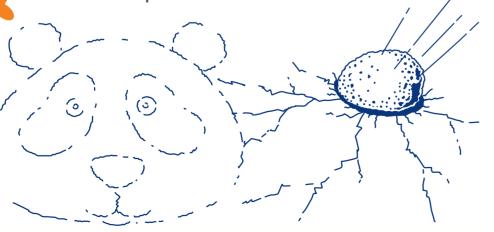
session 22 Meteorite Impact

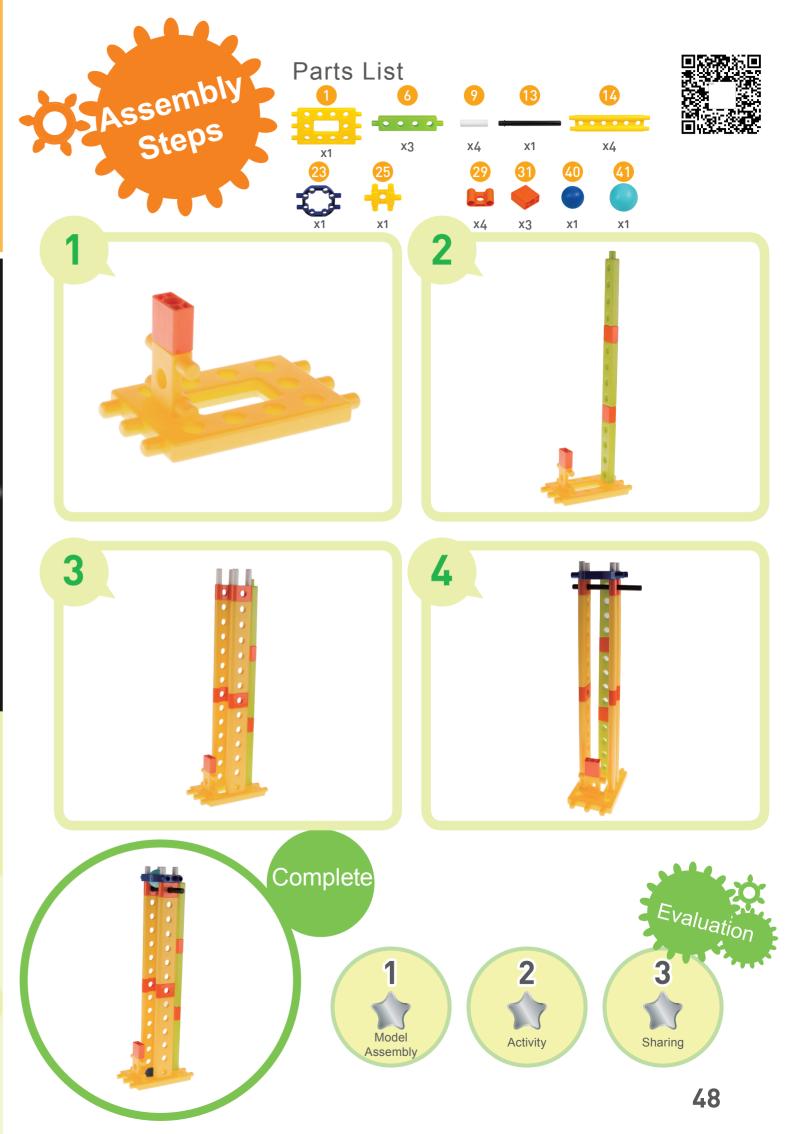
Learning Subject
Meteorite,
Imagination

What will happen when flying meteorites hit the earth from outer space?



A large meteorite fell down from the sky and formed a big crater on the ground. See what the path looks like.





Session 23 Zumanjaro

Learning Subject

Amusement park,

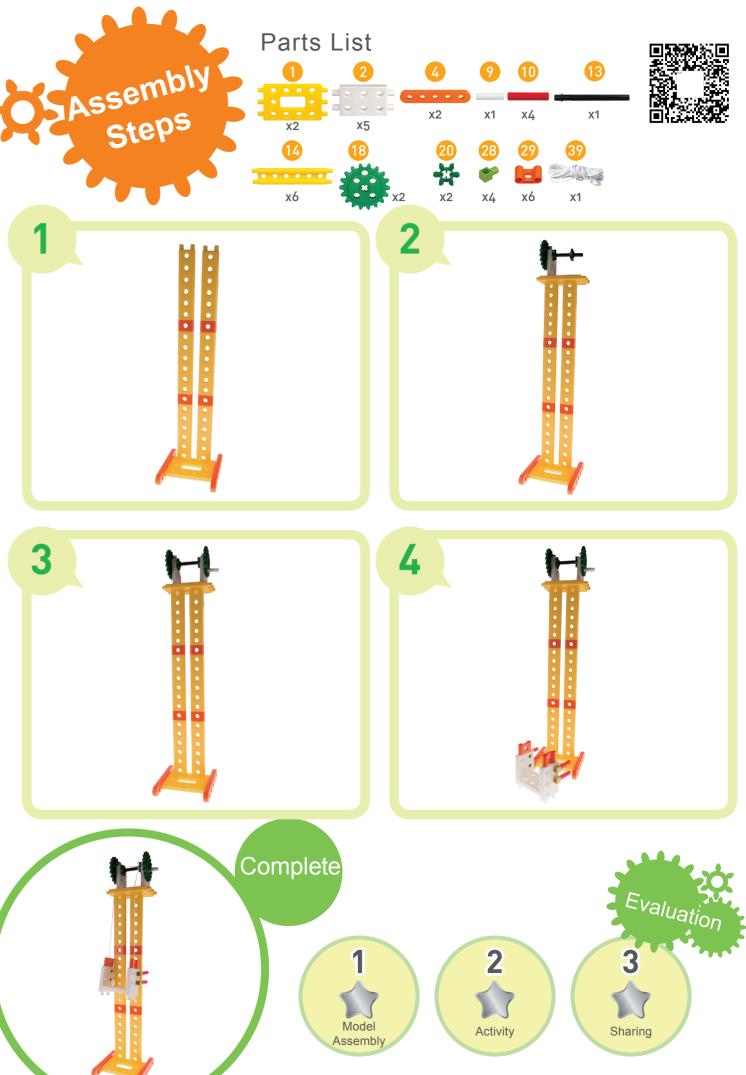
Oral expression

Zumanjaro is a very popular amusement park ride that lifts up and reaches a dynamic height before making a sudden drop.



Which facial expression would you have while riding the Zumanjaro? Share with us your fun experience at the amusement park.



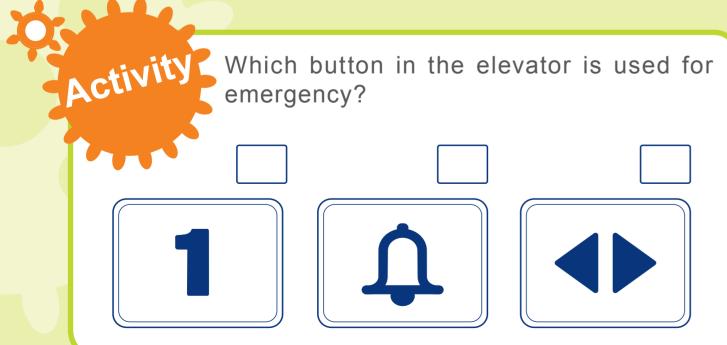


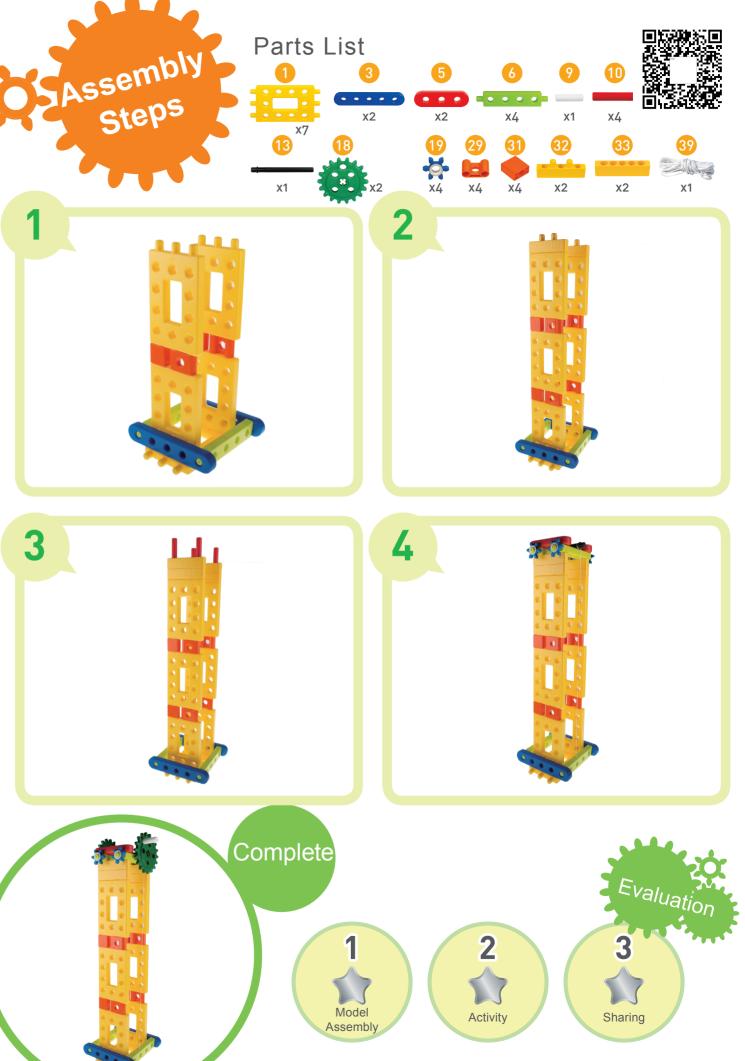
session 24 Elevator



An elevator functions with a series of pulleys that enable it to easily move up and down.



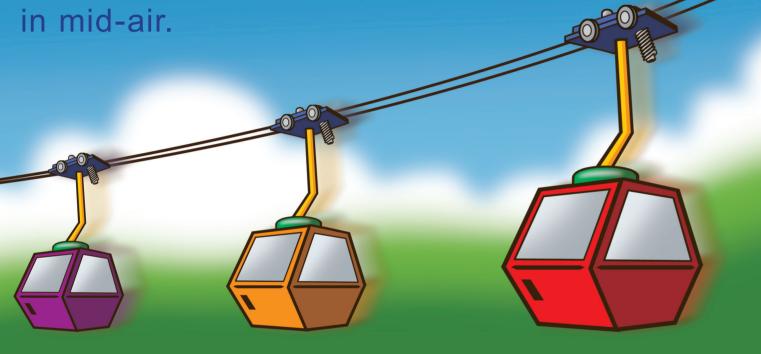


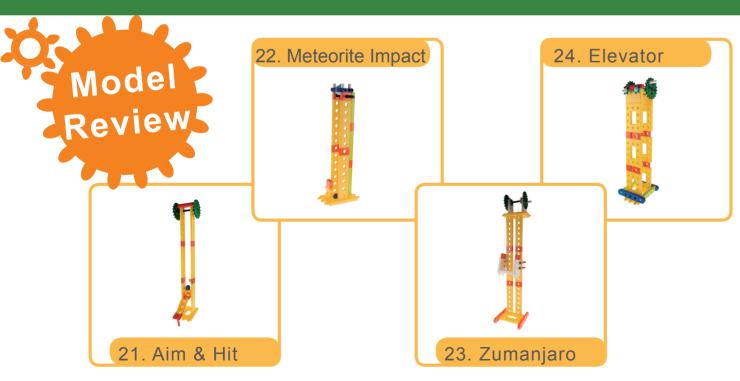


Session 25

Creation Contest - Cable Car

We can enjoy the view overlooking lakes and mountains while riding a cable car suspended in mid-air.





Creation Time

Have you ever ridden a cable car?
Use the building blocks to make one so it can take us sightseeing.



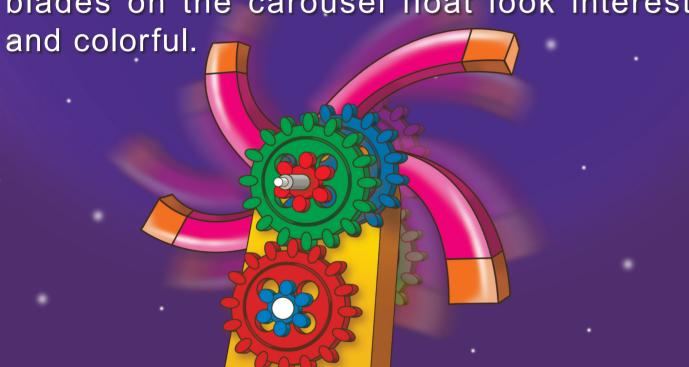


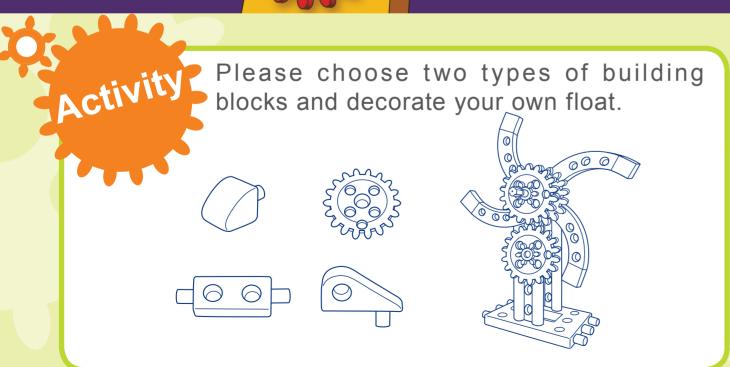
Session 26

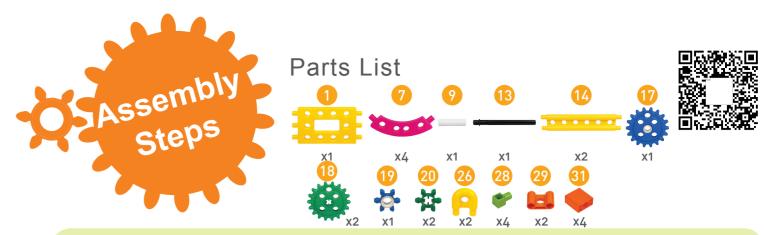
Carousel Float

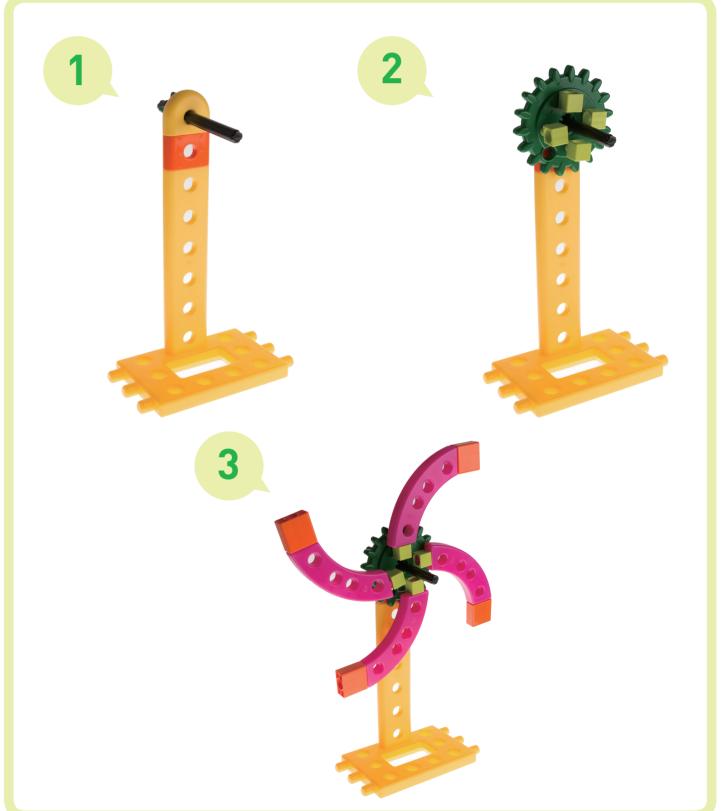


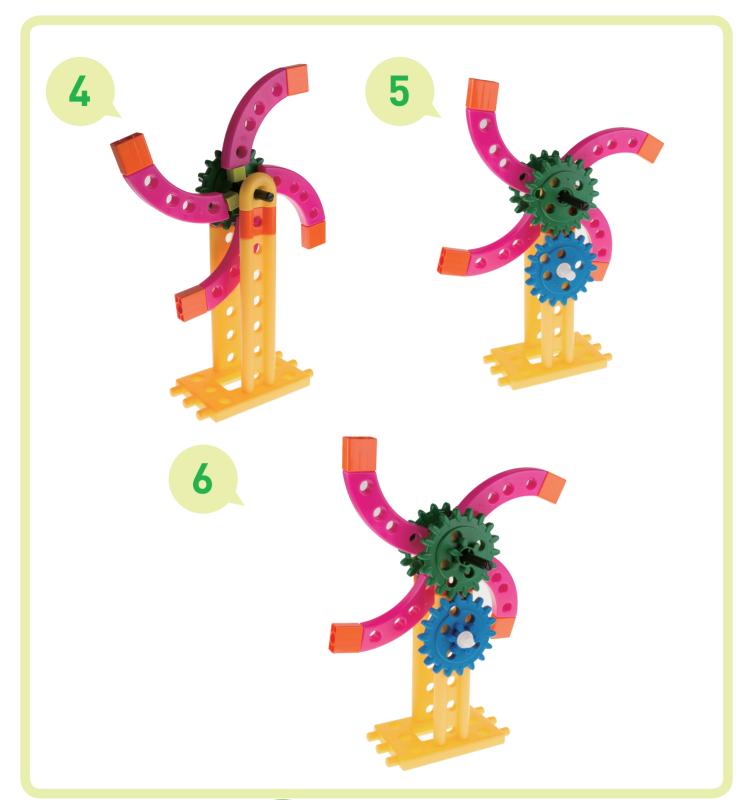
With so many beautiful decorations, the rotating blades on the carousel float look interesting









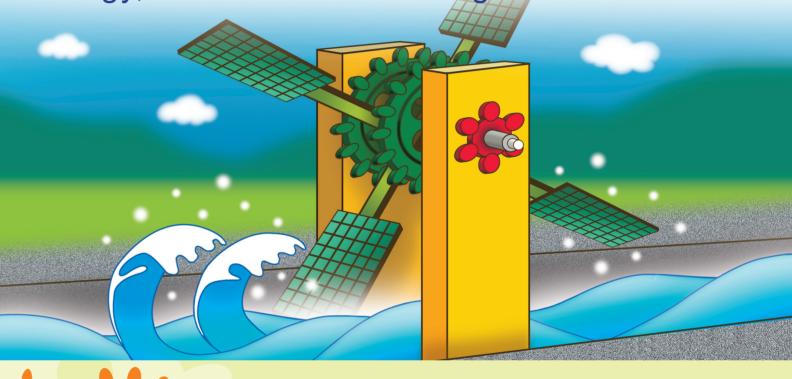


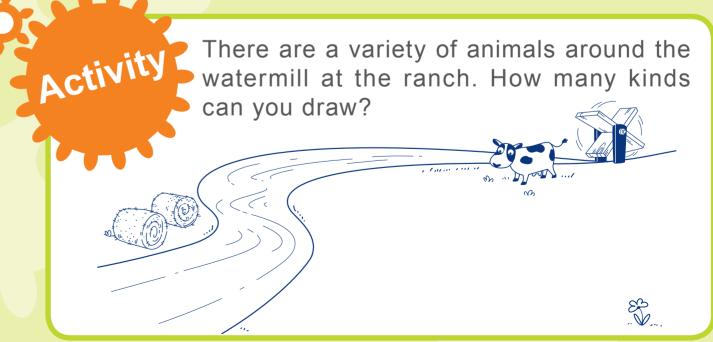


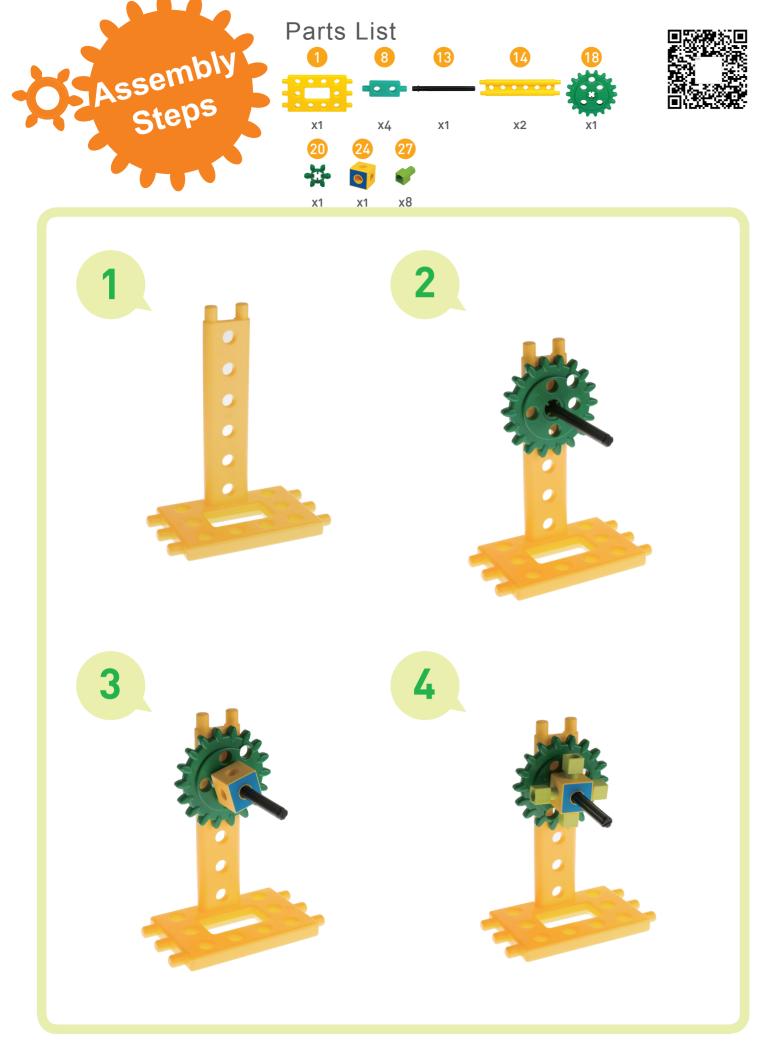
Session 27 Four-blade Watermill

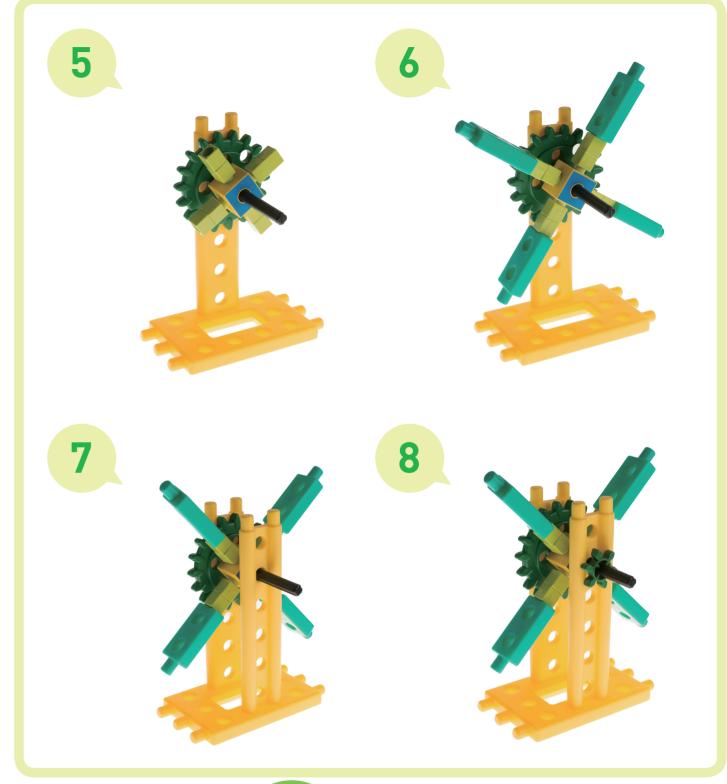
Learning Subject
Watermill;
Associative ability

A watermill rotates with the help of hydro energy, which is used for irrigation.



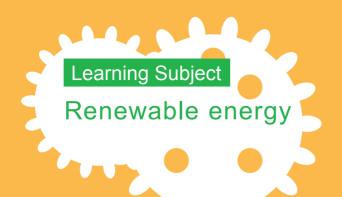






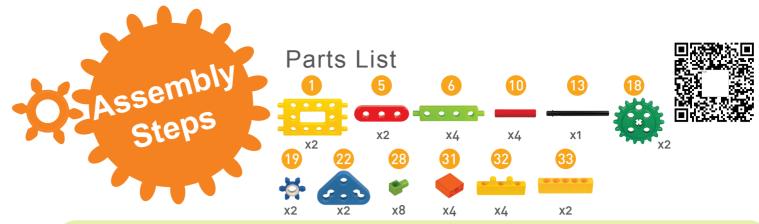


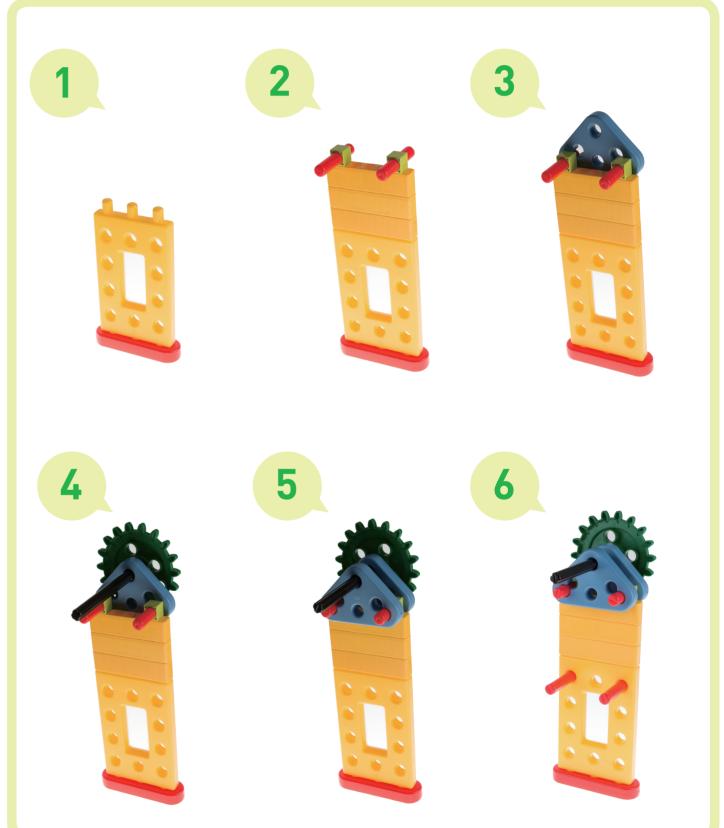
Session 28 Dutch Windmill



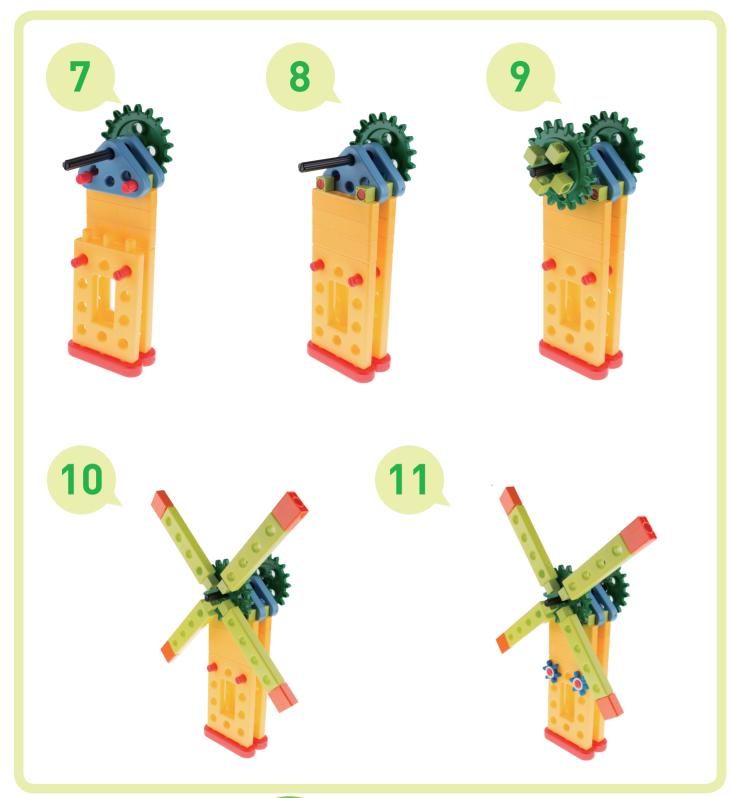
Holland is famous for its windmills used to generate electricity, which is a clean energy application.







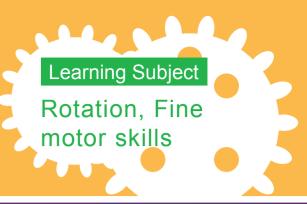
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Lottery Machine

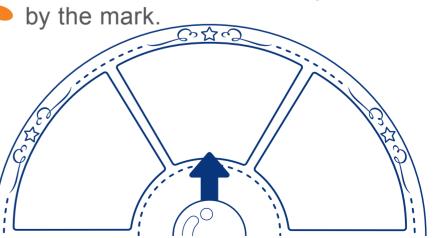


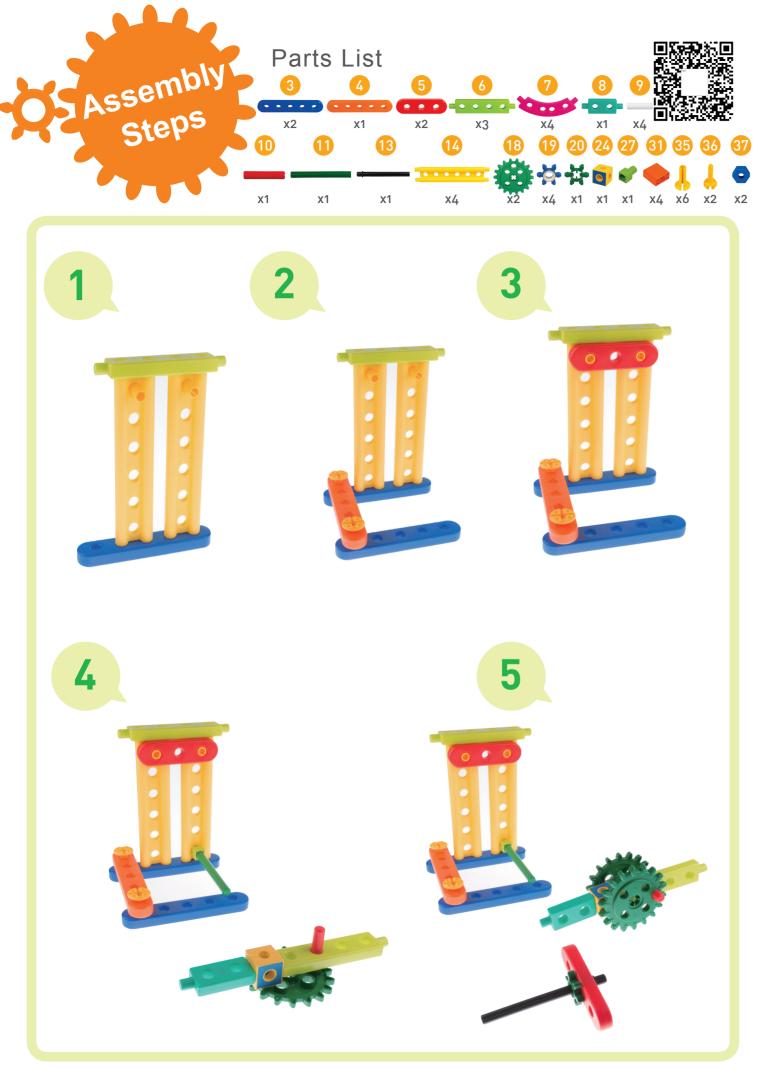
The lottery machine turns round and round, which is really nerve-racking. Let's see which ball number would appear





Put a mark on the lottery machine and rotate it three times. Draw the pictures indicated by the mark





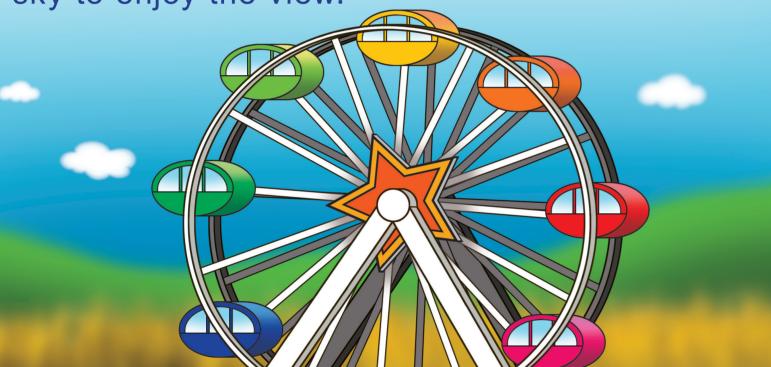




Session 30

Creation Contest - Ferris Wheel

The ferris wheel can take us high above the sky to enjoy the view.





Creation Time

There are many passenger cars on the Ferris wheel. Can you make a rotating Ferris wheel?





Creative World









4 #1233 Fun Cube





30 mins/ session; 30 sessions/ package

Technology Explorer

#1244 Robot

#1245 Vibro & Gyro







18 #1247 S4A Interactive





50 mins/ session; 20 sessions/ package

Brick Contraption

#1248 Basic Set

#1249 Construction Set





40 mins/ session; 20 sessions/ package

Scientific Experiment

5 #1234 Force &



6 #1235 Motion &



7 #1236 Electricity & Circuit 8 #1237 Electromagnetism



9 #1238 Gas & Pneumatics



#1240 Light & Solar Energy







13 #1242 Chemical Battery



40 mins/ session; 20 sessions/ package



Creative Classroom

#1250 Creative World Set



Target: age 2-6 (Kindergarten) 30 mins/ session; 120 sessions in total



#1251 Scientific Experiment Set-Power Machine

Target: age 7+ (Elementary School)

40 mins/ session,

#1252 Scientific Experiment Set-Green Energy



#1253 Technology Explorer Set

Target: age 7+ (Elementary School)...

Target: age 7+ (Elementary School) 40 mins/ session; 100 sessions in total



Target: age 10+ (Jr. & Sr. High School) 50 mins/ session; 80 sessions in total

69 70