BUILDING BLOCK MANIA!

Fun Leadership and Communication Activities for Junior 4-H members ages 9-11

“Creativity is contagious, Pass it on.” - Albert Einstein

Revised 2019
A limited supply of building blocks are available for Clubs and Area Councils to borrow. Please send your request to Manitoba 4-H Council. (204) 726-6136 learns@4h.mb.ca

This resource is for 4-H educational purposes only.

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LEGO® in Education

LEGO® provides hands on tools that develop lateral thinking in a fun environment.

- 3 dimensional thinking
- Improves literacy as kids work with instructions
- Communications and critical thinking
- Fine motor development
- Develop problem solving, organization and planning by construction
- Encourages creativity

LEGO® is used in the classroom to assist in skill development as well as assess current knowledge

- Hand eye coordination
- Develop scientific and technological solutions
- Geometry, mathematics and engineering
- Follow directions with logic and reasoning
- Duplicate complex patterns
- To plan and evaluate patterns

Play is a key element in children’s growth and development, and it stimulates imagination, the emergence of ideas and creative expression. By making things, children explore their ideas and discover how things work. The hands-on approach will help members to remember better than if someone simply tells them how it is done.

Learn To Do By Doing

“Learn to do by doing” is the 4-H motto and is one of the main reasons 4-H has been so widely recognized and respected in the field of informal education. It engages the learner, encouraging them to think more, work hard, and ultimately learn more thoroughly than with traditional teaching methods. Experiential learning is more than just doing activities. It involves planning and discussing the activity, drawing conclusions from the activity, and applying those conclusions to the real world. Hands-on activities expose members to new skills and encourage continuous learning.

For more information on the LEGO Group go to:

- The LEGO Group—a short presentation 2014

- Watch the documentary on NETFLIX called: Inside LEGO

- Check out the website LEGO® education at: http://education.lego.com/en-us
About This Resource
This packaged program has been developed to provide you with tools to teach Junior 4-H members leadership skills in a fun learning environment. Each activity has a Skills Checklist and is designed to complete the learning cycle; Dream It, Do It, Dig It.

Members will learn:
- Team work
- Public speaking
- To plan and follow directions
- Decision making and problem solving
- To think creatively
- To meet members from other clubs

Leaders and Parents will:
- Be part of the planning by helping to run a Building Block MANIA Event
- Learn activities to teach leadership to members
- Learn how to engage members in speaking about what they have learned
- Be able to network with one another
- Take part in resource sharing so they can bring new ideas and activities back to their club

Using the LEGO® Brand Name
- The LEGO® brand name should always be written in capital letters
- The LEGO® brand name must never be used as a generic term or in plural or as a possessive pronoun, e.g. “LEGO's”
- When the LEGO brand name is used as part of a noun, it must never appear on its own
- It should always be accompanied by a noun. For example, LEGO set, LEGO products, LEGO Group, LEGO play materials, LEGO bricks, LEGO universe, etc.
- The first time the LEGO brand name appears it must be accompanied by the Registered symbol ®. However the ® is never to be used in connection with a company name—e.g. LEGO Group, LEGO GmbH, LEGO Systems, Inc etc.
- The above rules also apply to LEGO® DUPLO®

While LEGO® is the theme for this packaged program for Junior members, it is not the only brand of brick that could be used for the program. There are a variety of other building blocks such as Mega Bloks® that would be suitable to use. Some activities require ink and in this case you may want to consider discount store bricks.
EVENT Agenda

Example for an event 2-2 1/2 hours long

6:00pm Doors Open
- Play music to set the mood for the event. For Example, ‘Everything is Awesome’ from The LEGO® Movie.
- Members guess how many bricks are in the jar. Have a prize for the winner to be awarded at the end of the event.
- When members sign in make sure you have a signed member event form.
- Before the event, divide members, into 5 colour groups (red, yellow, blue, green, orange). As members arrive send them to their designated colour group station.
- The volunteer at the station will have the member make their name tag and play mixer games or have bricks for members to build with until the event begins.

6:15pm Large group mixers and songs

6:55pm Members return to their colour stations
- For the sock and the cookie decorating stations have a location out of the way for members to label and store their items. They will have A sandwich bag and marker available for labelling.

7:00pm Start station activities. Ring a bell every 10-15 minutes to signal members to move to the next station.

8:15pm Group Snack
- Show a portion of The LEGO® Movie

8:30pm Finale Activities
- Evaluation Blocks- Have members return to their colour station. The volunteer will hand out a coloured piece of paper shaped like a brick. Ask Members to write down what they liked most and what they didn't like. Hand in to volunteer.
- Announce the Winner of Jar guess and award a prize
- Thanks all volunteers who made the event happen
- Hand out certificates to members
- Hand out Take Home items
- Send Home—Members play with bricks until their parents/guardians arrive.
Event Checklist

Facility
☐ Arrange for someone to book the facility, open and lockup and pay the rental fee.
☐ Book a facility with one large room to accommodate the number of members attending, a room for Leaders Coffee House and kitchen facilities if needed.

Promotion
☐ Communicate the event details to 4-H families: the date, time, location etc.
☐ Optional: Copy invitations and distribute to 4-H members.

Registration
☐ Member registration lists with members divided into 5 colour groups
☐ Member Event Forms signed by parents
☐ Extra Member Event forms for parents who do not have a form
☐ Jar full of Bricks for Guess the Number of bricks in the jar activity
☐ Slips of paper for members to write down their name and their guess
☐ Container to put the guess slips into
☐ Markers, pens, paper etc.
☐ Optional: 'Everything is Awesome' song. It can be purchased on line.
   Emmet's Orange work vest- 1 per member and volunteer

At each station before event begins
☐ 4-H Name tags for members
☐ Markers, pens 1 per member
☐ Approximately 1 ice cream pail of assorted bricks per station. 5 total for event.
☐ Sheet of get acquainted games to play with members. Pages 15 and 16.
☐ Poster to identify each colour station.
☐ Evaluation slips for volunteers to fill out.

Decorations:
☐ Decorate the event to give it a festive fun atmosphere.
☐ Check out the M4HC Pinterest board LEGO® for some ideas
   http://www.pinterest.com/4hmanitoba/
☐ Supplies may include: helium balloons, Bristol board, plastic plates, cups, napkins, etc. in red, blue, green and yellow. Bricks to decorate with etc.
Event Supply List

Stamp Socks
☐ 2 volunteers to run the station
☐ 1-2 8ft tables
☐ Cover for table, newspaper for each group
☐ Wet napkins to wipe ink off hands
☐ Garbage Can
☐ 1 pair of white socks per member
☐ Building bricks to use as stamps. One of each colour (red, blue, green, yellow) per member. You can use both square and rectangular blocks.
☐ 1 large ink pad in red, blue, yellow and green (Michael's Craft store Colour Box Pigment or its equivalent)
☐ 1-2 Hair dryers to dry ink on the socks
☐ Extension cord if required
☐ Sticky notes to identify socks after they have dried.
☐ Optional: bag to store completed socks and label with their name.
☐ LEGO® Brick Information sheet (page 20) for station leader to share with members

Cookie Decorating
☐ 2 volunteers to run the station
☐ 1-2 8ft tables
☐ Give each member a wet napkin to wash their hands before decorating cookies if no hand washing facility is available.
☐ 2-4 rectangular sugar cookies per member or graham crackers.
☐ 1 cup each of prepared pre-coloured icing (red, blue, yellow, green) icing to start. You may want to use Wilton Colour paste or ask your local bakery to make the icing and cookies for you.
☐ 6 round candies per cookie (red, blue, green, yellow)
☐ 1-2 rolls of wax paper depending on the number of members
☐ 20+ plastic butter knives—depending on number of members
☐ 1 sandwich bag per member for cookies.
☐ Marker to write name on the bag to identify members' cookies
☐ 1 bag containing 25 bricks per member.
☐ Art Information sheet (page 22-23) for station leader to share with members
Event Supply and Checklist Continued

**Minute To Win It**
- 3 volunteers to run the station
- 1-2 8 ft tables
- 1 ice cream pail of assorted bricks
- 2 plastic or paper plates per group
- 1 straw per member OR 1 pair of chopsticks per member
- 4-5 plastic cups per group of members
- 1 plastic teaspoon per member
- 1 small jam jar per group
- 4-5 sheets of play money printed and cut apart and sorted into the different denominations. Use a paper clip or envelope to keep the groups separated.
- LEGO® Information sheet (page 27) for station leader to share with members

**Tower Building**
- 2 volunteers to run the station
- 1 8ft table
- A large pile of large building bricks per team
- Information sheet (page 29) - World’s Tallest LEGO® Tower for station leader to share with members.

**Build a Maze**
- 2 volunteers to run the station
- 1-2 8ft tables
- 1 building plate per member and volunteer
- 1 ice cream pail of assorted bricks
- 1-2 marbles per member
- Information sheet (page 31-32) for station leader to share with members.

**Snack**
- 1 snack per member and volunteer
- Arrange a location for members to eat their snack
- Optional: Play the beginning or favorite part of The LEGO® Movie
  Need 1 video projector, laptop or DVD player, extension cord

**Finale Activities**
- Prize for winner of Jar Guess
- Arrange for someone to fill out the certificates ahead of time and present them to the members.
- Decide if members will be given a take home item.
- Optional: Order M4HC bricks for each member from M4HC.
- Ask volunteers to fill out evaluation
Event Checklist Continued

4-H Coffee House

☐ Separate room for parents and leaders
☐ 1 volunteer to host the Coffee House.
☐ 1-2 beverages per person (coffee, tea, bottle of water, etc.)
☐ 1 sugar cookie per person to decorate and eat.
☐ Activities handout for each leader
☐ Make one Bingo and Dominos game to play
☐ 4 copies of the 4-H Resource Guide
☐ Optional: copies of other 4-H resources available from GO offices

SAMPLE Budget

Income:

Registration Fee - 25 @ $20.00 500.00
Area Council dollars, sponsorship, club funds 100.00
Total Income 600.00

Expenses:

Facility 100.00
Snacks $2.50 per member 62.50
Decorations 75.00

Building blocks — 4-5 ice cream pails of assorted
Large building blocks for Tower building (donated, borrowed or purchased) TBD

Stamped socks $3.00 per member 75.00
Cookie Decorating $2.00 per member 50.00
Take home token for members $2.50 per member 62.50
Volunteer Honorariums if applicable 75.00
Other supplies (movie etc.) 100.00

Total Expenses $600.00
Decorating Ideas
Decorating will make the event fun and exciting for the members. Here are some ideas. For more check out the 4-H Manitoba Pinterest page at http://www.pinterest.com/4hmanitoba/

1. Decorate walls with Bristol board using plastic plates to make giant bricks.
2. Build brick containers.
3. Use bricks in jars to anchor helium balloons.
4. Lego hunting, super easy!
Registration

Supplies:
- Registration lists, pens, markers etc.
- Member Event Forms (must be signed by parents/guardians)
- Jar full of bricks for the guess the number of bricks in the jar activity when members arrive at the event.
- 1 ice cream pail of bricks at each station
- Optional: - The LEGO® Movie music,
  - Photo props
  - Dress like Emmet in The LEGO® Movie and give members an orange work vest to wear -1 per member and volunteer

Arrival:
- Guess the number of bricks in the jar.
- Divide members into five colour groups ahead of time. Send the member to their starting colour station. At the station they will fill out their name tags and take part in a mixer game or have free time building with bricks until it is time to start.
- Optional: Have the ‘Everything is Awesome’ song playing
- Optional: Give members an Emmet’s orange work vest to wear.
- Have the 4-H Coffee House host direct parents and leaders to the Coffee House location.
Get Acquainted Games

Once members have registered they will go to their assigned colour station. There, the station volunteers will have the member make their name tag and will play mixer games with the members before the event begins. Here are some suggestions.

Getting to Know You
Place red, blue, green and yellow bricks into a bag. Have members choose a brick without looking. Members then answer the question that each colour represents. Members continue drawing bricks until everyone has answered each colour. Members can build a small tower with the blocks they have drawn.

- **RED** - Say your name and your favourite TV show.
- **BLUE** - Say your name and your favourite subject in school.
- **YELLOW** - Say your name and your favourite sport.
- **GREEN** - Say your name and your favourite food.

Build It!
Allow members to freestyle build. Give them 5-10 minutes to create anything they want with bricks. When their time is up ask them to tell you about what they have built. Who, What, When, Where, How

Two Truths and a Lie
Choose one member to start. Have him tell the other players three things about himself. Two should be true and the another one not true (no particular order). All three statements should be believable, yet a bit off the wall, to make it harder to figure out. The other members try to guess which statement is the lie. Continue around the circle at least once until each kid has had a turn.

Would You Rather?
The purpose of this game is to give members practice public speaking in a fun way. It also will help members to think, make decisions, and to learn how to express their opinion.

Members draw a question from the hat. Members **must** answer the question. They are not allowed to say “I don’t know.” Then members are to give a reason why they chose the option they did. Can they convince others this is the best decision?

Here are some questions to get you started.
<table>
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<tr>
<th>Would You Rather Questions</th>
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<tbody>
<tr>
<td><strong>Be the first person to land on Mars OR Be the first person to live on the moon?</strong></td>
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<tr>
<td><strong>Kiss a monkey OR Kiss a worm?</strong></td>
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<td><strong>Be someone’s pet cat OR someone’s pet dog?</strong></td>
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<td><strong>Sleep upside down like a bat OR standing up like a cow?</strong></td>
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<td><strong>Be able to fly OR be able to turn invisible?</strong></td>
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<td><strong>Be Cinderella OR the fairy godmother?</strong></td>
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<td><strong>Be able to talk with all animals OR speak all foreign languages?</strong></td>
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<td><strong>Have eyeballs the size of golf balls OR teeth the size of computer keys?</strong></td>
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<td><strong>Go back in time one million years OR go into the future one million years?</strong></td>
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<td><strong>Spend the day swimming with dolphins OR take a long ride on an elephant?</strong></td>
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<td><strong>Have to eat 100 hot dogs in one hour OR 1000 french fries in one hour?</strong></td>
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<td><strong>Eat one can of soft dog food OR five cups of dry dog food?</strong></td>
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<td><strong>Live in an ant colony OR in a bee hive?</strong></td>
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<td><strong>Have an elephant trunk OR a Giraffe neck?</strong></td>
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<td><strong>Ride a bull in the rodeo OR be the rodeo clown who tries to get the bull’s attention?</strong></td>
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<td><strong>Be named after a cartoon character OR have a popular cartoon character based on you?</strong></td>
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<td><strong>Never bathe OR only in the nearest river?</strong></td>
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<td><strong>Have x-ray vision OR be able to fly?</strong></td>
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<td><strong>See everything upside down OR hear everything backwards?</strong></td>
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<td><strong>Be on TV OR be in a video game?</strong></td>
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<td><strong>Eat a hair sandwich OR an earwax omelette?</strong></td>
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<td><strong>Eat vegetables OR dessert</strong></td>
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<td><strong>Be friends with a giant OR a witch?</strong></td>
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<td><strong>Ride a horse or show a cow</strong></td>
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<td><strong>Travel around the world in a hot air balloon OR travel around the world in a sailboat?</strong></td>
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<td><strong>Play hockey OR baseball?</strong></td>
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<td><strong>Ride an elevator 1000 feet up into the air OR down 1000 feet below the ground?</strong></td>
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<td><strong>Be the world’s tallest person OR the world’s shortest person?</strong></td>
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<td><strong>Be a character in an adventure movie and have to fight a dragon OR have to fight a wizard?</strong></td>
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<td><strong>Be asked to star in a movie with your favourite movie star OR be asked to join your favourite band?</strong></td>
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<td><strong>Have a jar of jellybeans that is always full OR have an endless supply of chewing gum that never loses its flavour?</strong></td>
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<td><strong>Live in a Submarine OR a spaceship?</strong></td>
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<td><strong>Be very clumsy OR be very forgetful?</strong></td>
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<td><strong>Do a Livestock project or a Craft project.</strong></td>
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<td><strong>Have super powerful eyes OR super powerful ears?</strong></td>
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Group Mixers and Songs

Brickmaster Says
Play Brickmaster Says like “Simon Says”. Members must move so that their: knees do not bend, elbows do not bend, body only bends at the hip with the back straight and the head can move from side to side (or all the way around!)

Over Under Relay
Each colour group lines up behind the back of the first person. The first person is given the brick and has to pass it over their head to the second person. The second person then passes it through their legs “under” to the next person and so on. The first team to move all of their bricks (6-10) from the front of the line to the back (one piece at a time) wins! Use large bricks if you have them for this game.

Action Song—Oh Chester
Start off slow, and repeat the song 5 times getting faster and faster.

Oh Chester have you heard about Harry
1 2 3 4 5
He just got back from the army
2 6 7 8
He knows he needs not face defeat
9 10 11 12
So hip hip hurray for the army!
13 14 7 8

Actions:
1— from ‘O’ with right hand
2— touch chest
3—point at someone else
4—touch ear
5—touch hair
6—touch back
7—put left hand on right upper arm
8—(with 7) point to self with right thumb
9—touch nose
10—touch knee
11—touch cheek
12—slap side of foot
13—slap left hip then right
14—spin right hand in the air
15 four fingers

Head, Heart, Health and Hands
Let members mingle about the room until the leader calls Head, Heart, Health or Hands. Everyone must immediately find a partner and take on that position. Head requires you to put your heads together with a hand in between. Heart requires the two to make a heart shape together, Health requires the pair to extend their arms to make a giant “H” and Hands requires partners to cross arms and shake both hands. The person left without a partner or the last pair to accomplish the task is eliminated. Continue until you are down to the last 2 members. Works well with music.
Station #1  Stamp Socks
SKILLS CHECKLIST: Think Creatively, Plan and Follow Directions

DREAM IT
Building blocks are fun to build with. You can be creative and make some pretty interesting sculptures. Refer to The Amazing LEGO® Brick factsheet and share some fun facts about the LEGO® Brick. Ask: “what else can you use a brick for?” We are going to use them as stamps!

Supplies:
- Cover for Table, newspaper for each group
- Wet napkins for hands
- Garbage can
- White socks one pair per member
- Hair dryer
- Bricks to stamp with
- Ink pads in Red, Green, Blue, Yellow (Michael’s Craft store Color Box Pigment or it’s equivalent)
- Marker to write name on the bag to identify the socks after they have dried
- Sandwich bag to take socks home

DO IT
Give each member a pair of socks. Have red bricks for red ink pad etc. Talk to members about how to stamp to get a clear imprint. Once the socks are done have members use a hairdryer to dry the ink. Have members write their name on a sticky note and place on socks. Set socks aside (keeping the colour groups separate) to continue drying while members go to the next station.

DIG IT
It is time to think about what has been learned. Help members to reflect on how things went and to think about how they can use these skills in the future.

Ask:
- What skills did you use to make your stamped socks successful?
- What did you learn about following directions when stamping?
- If you did this again what would you do the same? What would you do differently?
The name 'LEGO' is an abbreviation of the two Danish words "leg godt", meaning "play well".

2. The LEGO Group was founded in 1932 by Ole Kirk Kristiansen. He made wooden toys.

3. In 1949 the first LEGO® bricks were made. They were called "Automatic Binding Bricks".

4. In 1958 the LEGO® brick is launched with a new coupling principle, the one we know today, opening up endless building possibilities.

5. DUPLO® bricks are designed for preschool age children. However, they are designed so that they can be used with LEGO® bricks to build.

6. The name LEGO® refers to the brand and it is never to be used as a plural e.g. LEGOs.

7. Standard pieces are called bricks NOT blocks. The bumps on the top of the brick are called studs. Everything is referred to by its stud count, so a classic LEGO® brick is referred to as 2x4.
DREAM IT
Art is all around us and there are many different ways to express your ideas. Can you think of some ways that ideas can be expressed? Ex. writing, speaking, painting, drawing, building etc. When planning a design you need to consider such things as shape, line, colour, and texture. Refer to the Art factsheet and briefly talk about what design elements the artists used. We are going to explore line and colour decorating some cookies and shape, texture and public speaking by building a sculpture.

Supplies:
Wet napkin for members to wash their hands if a hand washing facility is not available before decorating the cookies
2-4 rectangular cookies (order from local bakery, use graham crackers or other pre-made cookies or bake sugar cookies) per member.
1 cup each of prepared pre-coloured icing in red, blue, green, yellow
Tip: Ask a local bakery to make the coloured icing for you.
6 round candies per cookie
1-2 boxes of wax paper
Plastic knives
Sandwich bags one per member
Marker
Garbage can
LEGO® Art factsheet

DO IT
Cookie Decorating
Give each member a piece of wax paper and 2-4 cookies. Have them spread icing on the cookie and add 8–6 round candies to make them look like LEGO® bricks. Talk about the design elements of line, and colour.

Allow members to eat their cookies or put them in sandwich bag and have members write their name on the post it note. Place with the members other items. (Have a volunteer or the members themselves do this.)
DO IT
Sculpture
Give each member a bag containing 25 bricks.
Allow members 1 minute to build a sculpture using all of the bricks.
Instruct members to think about shape and texture when they are building.
When the minute is up ask members to describe to the group what their sculpture is.
Have them answer Who, What, When, Where and Why?

DIG IT
It is time to think about what has been learned. Help members to reflect on how things went and to think about how they can use these skills in the future.

Ask:
How did you make the cookie look exactly like a LEGO® brick?
What did you learn about designing a sculpture?
If you did this again what would you do the same? What would you do differently?

Classic Sugar Cookie  approx 50 cookies
Ingredients
- 3/4cup (175 ml) butter, softened
- 1 cup (250 ml) granulated sugar
- 1 egg
- 1 tsp (5 ml) vanilla
- 2-1/2 cups (625 ml) all-purpose flour
- 1/2 tsp (2 ml) baking powder
- 1 pinch of salt

In a large bowl, beat butter with sugar until light and fluffy; beat in egg and vanilla. Whisk together flour, baking powder and salt; stir into butter mixture in 3 additions.
Divide dough in half; shape into discs. Wrap each in plastic wrap; refrigerate for 1 hour. Let stand at room temperature until soft enough to roll out, about 15 minutes. Between waxed paper or on lightly floured surface, roll out dough to 1/4-inch (5 mm) thickness. Cut out rectangular cookies wide enough to fit 2 M&M's. Using spatula, place cookies, 1 inch (2.5 cm) apart, on parchment paper-lined or greased baking sheets.
Bake, 1 sheet at a time, in 375F (190C) oven until pale golden on bottoms and edges, about 10 minutes. Let cool for 1 minute on pans on racks; transfer to racks and let cool completely.
ART Factsheet

Designing Art with LEGO® bricks can be a good way to express new ideas and share information with people in a visual way. By using the design elements of line, colour, shape and texture you can design some amazing sculptures.

LEGO® Artist Sean Kenney—
Sean Kenney designs portraits and a Nature Connects display that is travelling to Botanical Gardens across the United States. His designs are interesting and teach children about nature.

**LEGO® mosaic from a photo-**

Bison and her calf.  
Made with 16,229 LEGO® Bricks.

Hummingbird  
Made with 31,565 LEGO® bricks.
Brick Artist Nathan Sawaya—Nathan Sawaya creates designs that make you think. What do you think they are saying? His exhibit is called, “The Art of the Brick.” What design elements most describe his work?

LEGO® Artist Mike Doyle
Mike Doyle’s creative thinking and design encompass all elements of design.

“The Millennial Celebration of the Eternal Choir, K’al Yne, Odan took around 800 hours and over 200,000 pieces to complete. It is 6’ high by about that wide and about 3’ deep. The work takes the viewer to a mystical planet called Odan in the midst of celebration.”
Station #3      Minute It To Win It
SKILLS CHECKLIST: Teamwork, Communication

DREAM IT
Knowing how be part of a team is an important skill to have. Can you think of a time when you had to work with someone to complete a task? What did you do to make it successful? Sharing some interesting facts about LEGO® with your team will help you to get to know one another before you play Minute It To Win It. Refer to the 10 Fun LEGO® Facts factsheet.

Supplies:
An assortment of bricks
Paper plates
Straws
Plastic cups
Plastic spoons
Jam jars
Stop watch
2 Eight foot tables
10 Fun LEGO® Facts Factsheet
2-3 volunteers required to run this station.

DO IT:
Divide members into teams of 2-4. Explain that they will be playing “Minute To Win It”. They will be given a series of challenges to perform. Each activity will last one minute and will require that they work together to complete the challenge.
Challenge #1
Brick Transfer
Equipment: 2 paper plates, straws, bricks
How To Play: To complete this game the players must use the straw to "suck up" bricks and transfer them from one plate to the other. The team with the most bricks on the plate wins. OR
Chopsticks
Transfer bricks form one container to the next using chopsticks. The team who transfers the most wins.

Challenge #2
Spelling Bee
Equipment: Cup full of bricks
How to Play: To complete this game, the players must use all of the bricks in the cup to spell the word 4-H using all of the pieces

Challenge #3
Spoon Race
Equipment: Bricks, plastic spoon, 2 plastic cups
How to Play: To complete this game, team members take turns transferring bricks from one cup to another. Place cups 3-4 metres away from each other. The team with the most bricks in the second cup wins.

Challenge #4
Brick to Brick
Equipment: Build a structure using various colours of bricks and fill a container with the exact same pieces needed to build that structure.
How to Play: To complete this game, the players must use the bricks in the cup to build a structure that looks the exact same as the one that you built.

Challenge #5
Brick Drop
Equipment: Bricks, small mouthed jar such as a small jam jar
How to Play: To complete this game, give each member a jar and have them drop a brick from arms length to get it into the jar. Add up the number of pieces each team member gets in the jar to determine the winner.

DIG IT
It is time to think about what has been learned. Help members to reflect on how things went and to think about how they can use these skills in the future.
Ask:
How easy/difficult was it to work together as a team?
If you had to do this again what would you do the same?
What would you do differently?
1. LEGO® comes from the Danish phrase leg godt which means “play well”.

2. 55 Billion LEGO® elements have been made in 2013. 600 Billion since the company began in 1932. 105,000 pieces are made every minute.

3. LEGO® is one of the world’s largest tire manufacturers—they make 500 million LEGO® tires every year.

4. The world’s children spend 5 billion hours each year playing with LEGO® bricks.

5. On average every person on earth owns 86 LEGO® bricks.

6. If you build a column of 40,000,000,000 LEGO® bricks it would reach the moon.

7. There are enough minifigures to wrap around the earth at least 4 times. Approximately 4 billion minifigures have been produced making it the world’s largest population.

8. Approximately 7 LEGO® sets are sold every second. During the Christmas season it increases to 34 sets.

9. 2 eight stud bricks of the same colour can be combined 24 ways
   3 eight stud bricks of the same colour can be combined 1,060 ways
   6 eight stud LEGO® bricks can be combined in 915,103,765 Million ways

10. In 2009 James May of Great Britain built a full size house entirely of 3.3 million LEGO® bricks. It took 1000 volunteers to build it. There is a working toilet, and shower and a bed made from LEGO®. See this daily mail article for more pictures.  
Station #4  Tower Building

SKILLS CHECKLIST: Teamwork, Communication,

DREAM IT
Building a tower is fun. What do you need to do to build a stable tower? How could you work with a partner to build a tower taller than you are? Refer to the factsheet World’s Tallest LEGO® Tower to see the tower that holds the title of World’s Tallest LEGO® Tower in the Guinness Book of World Records. How was this tower built?

Supplies:
Lots of Toddler Size Bricks
Factsheet showing Guinness Book of World Records Tallest LEGO® Tower 2014

DO IT
Divide members into teams. Teams will build a simple tower. Have members take turns placing the bricks until the towers fall over. Next discuss with members What would make a more stable tower? Have members stand, legs together and have a team member gently give them a push. Then ask members to stand, legs apart and team member gives them another gentle push. Just like members are more stable with a wider base so will the tower. Have members build a more stable tower taking turns placing the bricks.

Tips:
Alternate the direction of the bricks for each row

DIG IT
It is time to think about what has been learned. Help members to reflect on how things went and to think about how they can use these skills in the future. Ask:
What did you do to build a stable tower?
How did you work as a team?
If you did this again what would you do the same? What would you do differently?
The current tallest LEGO® Tower in the world was built on May 25th 2014 in Budapest Hungary. It took 4 days to build and is 34.76 metres high. It took 450,000 bricks to build the tower. Photos were taken by Getty Images.

You can see a video of the tower at:

Station #5  Build a Maze
SKILLS CHECKLIST: Decision Making, Problem Solving

Supplies:
1 Building Plate per member and volunteer, 1 marble per member
Large assortment of building blocks to build the maze
1 Marble per member

DREAM IT
A maze is a series of paths designed as a puzzle through which one has to find a way out. Refer to the Maze factsheet and discuss the different kinds of mazes. Ask members what mazes are used for. Discuss with members what they need to think about before starting to build their own maze.

DO IT
Build a simple maze on a building plate. Refer to the Maze factsheet for some examples and to explain Maze Anatomy to members. Direct members to make the same maze on their building plate or to design their own maze. Have them tilt a marble through the maze.

Encourage members to trade mazes so they can try each others.

Tips:
Include an entrance and an exit.
Include some dead ends and islands.
Make sure the spaces are wide enough for the marble to travel through the maze.

DIG IT
It is time to think about what has been learned. Help members to reflect on how things went and to think about how they can use these skills in the future.
Ask:
• What was the most difficult part about designing a maze? What worked well?
• What would you do differently?
• What was the most interesting thing you learned about mazes?
Maze Factsheet

Mazes have been a part of human culture for thousands of years. The oldest surviving maze is one carved into a stone wall in Sardinia. It is believed to be over 4,000 years old. A maze is like a puzzle to be solved. It has twists, turns, and blind alleys. It is a left brain task that requires logical, sequential, analytical activity to find the correct path into the maze and out. With a maze many choices must be made and an active mind is needed to solve the problem of finding the center. Mazes challenge us to make decisions.

Mazes are not just for fun. They are used for meditation, scientific laboratory experiments and for medical treatments such as eye control.

Mazes can be drawn on paper, sand, walls etc and are often made out of such things as mirrors, shrubs, corn and of course LEGO®.

Terms

**Unicursal** - One path through the maze. A maze with no branches. Sometimes called a circuit maze.

[http://squintyjosh.blogspot.ca/2011/03/better-training-mazes-for-macula.html](http://squintyjosh.blogspot.ca/2011/03/better-training-mazes-for-macula.html)

**Multicursal** - Maze that offers a choice of paths. There are several entrances and exits and dead ends. You must solve the puzzle to exit the maze.

[http://www.crystalinks.com/labyrinths2.html](http://www.crystalinks.com/labyrinths2.html)

**Plainair Maze** - A maze on something other than a flat surface. For example, a maze painted on the outside of a cube or sphere.

Corn maze at [www.gavinsfarm.com](http://www.gavinsfarm.com)
Maze Anatomy

Branch - A path inside a maze.

Blind Alley - Branch that is a dead end.

Island - A section of the maze containing walls not connected to the external wall of the maze. Sometimes also referred to as a detached wall.

Hub - An enlarged area inside the maze with multiple choices of branch leading in/out.

Simple Maze Patterns to Build
At your Event have a separate room for parents and leaders. This will be a space for leaders and parents to meet, discuss what they are doing in 4-H, and to share ideas. Make it casual and inviting and provide:

- Coffee/tea/water/snack
- Copies of 4-H resources – See 4-H Resource Guide for what is available
- Handout— Using Building Blocks at a Club Meeting page 32-33.
- Show leaders a copy of the Planned Program

Optional activities:
- Decorate cookies
- Play Dominos
- Play BINGO
- Play the Board Game

4-H Manitoba Pinterest Page

The M4HC Pinterest page has a LEGO board full of LEGO® MANIA ideas.
https://www.pinterest.com/4hmanitoba/

CEO, the LEGO Group
Jørgen Vig Knudstorp

“All speaking is public speaking whether it’s to one person or a thousand”. Roger Love

Check out the Manitoba LEGO® Users Group’s website and see what they have been up to. Ask them if they would like to attend your event as a guest speaker or to set up a display of what they have built.
Using Building Blocks At A Club Meeting Factsheet

Grab Bag
SKILL: Communications
Fill a bag with a variety of bricks. Have each member grab a handful of bricks and build something that relates to their 4-H project. They must use every brick. Have members talk about what they built. You could also have members build with a partner.

A variation of this activity would be to have a speed build. Have members work in teams for 10 minutes to create an invention that would make their lives easier. When time is up have members present their creation to the group.

Partner Masterpiece
SKILL: Teamwork
Have members build a masterpiece one brick at a time. Divide into teams and discuss what they will build. Pass a container of bricks around the table. Members take turns pulling out a brick without looking and adding it to the sculpture. Have the group present the sculpture to the entire group and discuss: Does it look like what they planned to build? How well did they work as a team? What would they do differently?

Brick Challenge
SKILL: Following directions, creativity
Provide members with bricks. Have members draw a card and build what the card says. For example — build something round, build something that has to do with food or cooking, or build a structure with 2 equal sides, etc. Make challenge cards according to the projects that your members are taking.

Sculpture
SKILL: Communications
Give each member a bag containing 25 bricks. Allow members 1 minute to build a sculpture using all of the bricks. Instruct members to think about shape and texture when they are building. When the minute is up ask members to describe to the group what their sculpture is. Have them answer Who, What, When, Where and Why?

Directions
SKILL: Giving clear directions, listening
Give each member the same bricks (number of studs, colour, shape). Have one member build a structure without other members seeing it. This member then must verbally instruct the other members how to build the structure. Have members take turns giving instructions and listening to instructions to build different structures.
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How To Play: To complete this game the players must use the straw to “suck up” bricks and transfer them from one plate to the other. The team with the most bricks on the plate wins. OR
Chopsticks
Transfer bricks from one container to the next using chopsticks. The team who transfers the most wins.

Challenge #2
Spelling Bee
Equipment: Cup full of bricks
How to Play: To complete this game, the players must use all of the bricks in the cup to spell the word 4-H using all of the pieces

Challenge #3
Spoon Race
Equipment: Bricks, plastic spoon, 2 plastic cups
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Brick to Brick
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How to Play: To complete this game, the players must use the bricks in the cup to build a structure that looks the exact same as the one that you built.

Challenge #5
Brick Drop
Equipment: bricks, small mouthed jar such as a small jam jar
How to Play: To complete this game, give each member a jar and have them drop a brick from arms length to get it into the jar. Add up the number of pieces each team member gets in the jar to determine the winner.
Volunteer Evaluation

What worked well at your station?

What did not work?

Where the activities effective in engaging the members?

Where members challenged by the activities?

Did you observe members learning?

Any suggestions:
Additional Games and Activities

Giant Colouring Wall
SKILL: Creativity
Create a large wall mural using poster paper. Provide crayons and markers for members to colour the wall. This would be a great activity for the beginning of an event while members are waiting for things to start.

Grab Bag
SKILL: Communications
Fill a bag with a variety of bricks. Have each member grab a handful of bricks and build something that relates to their 4-H project. They must use every brick. Have members talk about what they built. You could also have members build with a partner.

A variation of this activity would be to have a speed build. Have members work in teams for 10 minutes to create an invention that would make their lives easier. When time is up have members present their creation to the group.

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SKILL: Teamwork
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Brick Challenge
SKILL: Following directions, creativity
Provide members with bricks. Have members draw a card and build what the card says. For example, build something round, build something that has to do with food or cooking or build a structure with 2 equal sides etc. Make challenge cards according to the projects that your members are taking.
Board Game

The winner is whoever has the tallest tower at the end of the game. Print out game board [http://www.pinterest.com/4hmanitoba/lego/](http://www.pinterest.com/4hmanitoba/lego/) or use the one on page 43. From: [www.PediaStaff.com](http://www.PediaStaff.com)

Use bricks as game pieces and to build a tower as you go from start to finish. Shake one die for each turn. The person with the most bricks in their tower at the end of the game is the winner.

Optional:
Recreate your own version of this board game by using project specific questions to gain or lose bricks. For example, you forgot to wash your hands before making cookies loose 2 Bricks.
Friendship Bracelet

What you need:

- Flat bricks
- Drill and 3/32" drill bit
- Embroidery thread (three colors per brick)
- Scissors

How to make:

Step 1: Using a drill and the 3/32" drill bit, drill 2 holes in each brick as per picture. Tip: stack a few bricks on top of each other and drill through several at once.

Step 2: Cut embroidery thread in three different colours to one length. Put all of the colours together and fold them in half. Thread the loop through one of the holes. Pull the loose strands through the loop you formed once pulling part of the thread through the hole. Pull the thread tight.

Step 3: Separate the three colors and braid them until about 1.5 inches of thread remains. Tie a knot at the base of the braid. Repeat steps 2 and 3 for the other side of the brick.

From:
http://www.thecentsiblelife.com/2013/02/lego-friendship-bracelets/
**Picture Build**
Provide members with a picture and the pieces to build it. Ask members to look at the picture and using all of the pieces provided to build a structure that looks exactly like the picture. For younger members it also helps to have one built that they can look at. Use the animal alphabet cards for this activity.

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