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Fll core values activities

One of the main components of the FIRST LEGO League is teamwork. How is work divided? How well do teammates work together to solve a problem? What happens when there's a disagreement? Everyone on the team has a chance to participate? All of these issues require a certain amount of teamwork to happen. During our FLL time, we incorporated games so that kids could 1) get a break and 2) enjoy working with each other on another problem-solving capability. Here's a list of some team building ideas we used last year, as well as some new ones I'm going to use this year... 1. Untie the HUMAN KNOT. The children loved this exercise. We'd take it out every few weeks. When we started, there was no end to the confusion and lack of coordination on the part of the boy. But at the end of the season, they figured out how to appoint a director so tell us how to untie the knot and they were able to untie the knot. Here's the direction. 2. Exercise of the moon landing team. For this activity, I divided the children into teams of 3 and they discussed the priorities of the equipment for you to take if you landed on the dark side of the moon and had to find your landing party on the other side. It's a very interesting exercise in communication and logic. The children had to justify why they thought one piece of equipment was better than the others. Just like they'll have to do when they want to run a robot or program in a certain way. Here are directions and spreadsheets. 3. Blind Construction. I divided children into two teams. Both teams receive exactly the same 7- 10 LEGO pieces. Team #1 builds something with all the pieces. It doesn't have to be anything useful or beautiful. They just have to build something with all the bricks connected. The team #1 then have to explain how to build their contraption for Team #2, but neither team can actually see what the other team has. I put a team behind a counter so they couldn't actually see each other. The goal is to work together to explain and understand something in the visual senses. Each child can take a turn adding to the building and explaining how to build. So we switched roles. The team #2 builds and explains its construction to the #1. 4. Journal Table. Using only newspaper and tape, children build the strongest structure that would be able to hold very heavy books. You can't stack newspapers on top of each other. You'll have 10 minutes to build. The structure must be greater than 6 inches. 5. Toothpicks & Marshmallows Bridge. For that I used some very old mini marshmallows. They needed to go anyway. I had two teams build the longest bridge spanning toothpicks and marshmallows. They had 10 minutes to I couldn't believe some kids wanted to eat those marshmallows afterwards! Yukk, yukk. I think gum would work well, too. 6th Freeze Tag. This is the same game we all played when we were younger. Kids ran around the yard just to get swings out. Tall Towers 7. Our regional teamwork challenge at FLL was to give children a sheet of paper and tape. They had to build the tallest structure they could with it. Most kids found out you should cut the paper. I think they have five minutes. 8. Build a moving device. I learned about it at a Virtual Robotics Summit during one of the lectures. Divide the group into smaller teams. For each team, you will need to have a brick mindstorms. Then count about 60 other pieces of the kits. Each team receives exactly the same parts. You can decide which parts they receive. but don't give them wheels or gears. They have to build the best moving object from these parts. You also decide what constitutes the best robot. They will have to program this object to move. This may take a little longer as an activity, but it will make the juices flow for how to build the most effective and efficient mobile device with what they have at hand. I love that they don't have wheels! 9. Exchange of Information. In this activity, children organize themselves according to specific instructions, such as ordering themselves in ways such as date of birth, by month of birth, by number of people in your family, state where you were born in alpha order. All these are good ways for people to know what is another. This is good for a first meeting so they can get to know each other and they have to communicate with each other. 10. Giant Egg Drop. Children are divided into a uniform number of groups. Each group receives a bag of goodies full of materials that should help a raw egg survive a two-story fall. I'd do it outside unless you have easy-to-clean floors. Each group has 15 minutes to build the best protection for your egg. The team with the egg that survives the biggest fall wins. Here are the things you could put in a paper lunch bag: 2 tongue depressants, 4 rubber bands, paper cup, 1 sheet of newspaper, 10 toothpicks, 1 foot adhesive tape, 1 raw egg. 11th Lego Bridge Contest. Fill a small paper lunch bag. Each paper bag receives exactly the same LEGO pieces. Be sure to put sturdy building pieces as well as strange and small decorative pieces. Give them to your kids and tell them that they have an x number of minutes to build a sturdy bridge from the strange pieces of LEGO. When time runs out, grab a can of tuna, and see if the bridges each person has built can support the can. Keep adding cans until the bridge can't hold out anymore. Award points for better design, construction, etc. Children love the excitement and thought of the crumbling bridge under the weight of so many cans. 12. Sheet Paper Step Through the Game. The they needed some tips, but in the end, they succeeded. You take a sheet of paper 8 1/2 x 11. They have to figure out how to cut it into a continuous strip so that two children can get through it. Kind of complicated, but you can see your noggins at work. Work. of this site. I've also had a few others i can use in the future. 13. The Hula Hoop Cooperative. This activity required a lot of concentration. The point was to have a person in the middle of a hula hoop that's on the floor. The other team members, possibly up to four, surround the outside of the bead. The goal is to bring the hula hoop over the person's head in the middle. You can choose the shortest person to make things easier. The catch is that team members can only use their two extended index fingers. Your indicator fingers cannot wrap the hula hoop. The hula hoop just has to balance on its two extended fingers. The other rule is that all team members have to keep in touch with the hula hoop all the time. This was really hard to do and the kids had to spend some time with strategy. Most of the hard part was that there was more than one person giving instructions. Stronger than it looks! Close up of the formation of the fingers. If you haven't figured it out yet, the judges are paying special attention to the case. It's not so much about the solution as much as how the kids got there. 14. Organize ANYTHING! Okay, I'm going to have to admit that this is a somewhat selfish team builder, but it saved me so much time. I had just bought 6 LEGO WeDo sets for use in fields and as we know very well, things only arrive in plastic bags and a box. There is a useful tray and two levels of space that we could use in this box. The children had 10 minutes to organize all 6 boxes in the most efficient method possible for the children who would use these kits to find out. It was a great way to kill two birds with one stone. They had never seen these kits before, so they had to really think and talk about how to better sort the pieces. So they had a limited time, so they had to split the work. In the end, they chose to sort them by color. Top level classified by color (mainly). Lower level, mostly ashes. Extrapolate to all the other things that need to be done and make the kids figure out how to do it. More thoughts I've had: Can you clean and organize my closet in the most efficient way? A... Take them to a food pantry and make them work together to accomplish as a task there. (This would be a longer team training session.) The point is that these team building sessions can also be used for the benefit of others. 15. Popsil stick triangles. The following activity attempts to encourage children to think outside the box. Each team receives 6 popsil sticks with which they need to make 4 equilateral triangles. I gave them about 10 minutes to talk about it and try to find out. My kids couldn't solve the problem. They kept thinking about two dimensions. The answer was to find that when a 3D solution, the problem can be easily solved with the construction of a pyramid. 16. What can you do with a hanger? Children are shown a hanger and asked to list different possible uses. They have the freedom to use any material, size or shape of a hanger; they can imagine cutting it, shrinking it, using many of them, etc. They had to think individually about creative uses for the hanger and then come together to agree on a specific use. So I made the kids come with a commercial to try to sell me the hanger. That was funny. It took about 20 minutes. 17. Draw a tool. In this activity, children will use their creativity to develop a new tool to safely retrieve a golf ball from a garbage can. Kids can't touch the trash can, but the tool can. You need a lot of materials for that, but each team doesn't have to use everything. They have 20 minutes to design, build and test the device. I'd use a box or any container to simulate a garbage can. This is fun because you get so many items and the team has to come to a consensus on what they will use. If fact there is probably enough here to build at least 3 tools. Materials (per team): 1) 1 paper lunch bag (yes, you can also use the bag in its construction) 2) 1 golf ball 3) 4 pieces of 4 string 4) 4 drink sticks 5) pair of wooden chopsticks 6) 4 small paper clips 7) 4 elastic 8) 5 Post-It notes (3 x 3) 9) 3 cleaning tubes 10) 1 pencil 11) 1 foot adhesive tape

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