

Standard Lesson Plan

The Land of Bicycle Ambulances



What is the Primate's World Development Relief Fund (PWRDF)?

The primate is the head of the Anglican Church of Canada. Canadians in the Anglican Church of Canada take care of the Primate's World Relief Fund. Perhaps some of the people in your church work for PWRDF.

PWRDF makes sure that people in Canada, and people all around the world, have help when they need it. PWRDF helps communities everywhere to grow in healthy ways. PWRDF helps people when they have lived through hard times, and works hard to bring fairness and justice all around the globe. PWRDF helps to make a fair, healthy and peaceful world.



PWRDF would not be able to do these amazing things if it weren't for people like you and your family, who give money through their Anglican church.

Today we will begin looking at one PWRDF project, Bicycle Ambulances. We will start to make some exciting 3-D maps of the land where the bicycle ambulances ride. Then, we will use our map to have bicycle ambulance races at coffee hour and raise money for PWRDF's bicycle ambulances. Are you ready to have fun? Great! Let's spend the next five lessons having fun.

What You Need

- Some basic information about bicycle ambulances that you can present to the children. In the following links, especially note how the land of rural Mozambique looks.
 - Video that introduces the idea of bicycle ambulances. This is a great video to show to the children in your class.
https://www.youtube.com/watch?v=_UBiBflTRKg
 - Introduction to the idea of PWRDF's bicycle ambulances
<http://pwrdf.org/2010/bicycle-ambulances-1320683257/>
 - Bicycle ambulances are so effective in Mozambique that now they are also used in Bangladesh, India.
<http://pwrdf.org/2013/bicycle-ambulances-on-the-move/>
 - How Simon Chambers of PWRDF was able to get a photograph of a bicycle ambulance; he also found that the community who owned it had some great recycling skills.
<http://pwrdf.org/2012/the-bicycle-ambulance-that-wasnt-almost/>
- Some basic information on the geography of rural Mozambique and Bangladesh, to help the children build the 3-D landscape map. You might use books with pictures or printed pictures of rural Mozambique from the above Internet links.
- Glue that is easy to wash off OR children's white glue OR paper maché paste
- Tape
- Construction materials—anything that you can assemble and stick together easily, using glue, tape or anything that sticks. These could be many things:
 - Paper maché created from newspapers or old church bulletins
 - Old wooden blocks
 - Food boxes, cereal boxes, disposable containers
 - Lego or other popular children's building toys—children love this



option and it may be possible to collect these kind of toys through donations if you start asking early in the year through the church bulletin. You might be surprised how much Lego you get!

- You can also use any combination of the above materials. (If you decide to combine children’s toys with paper maché, you can always wash them afterward.)
 - Toy marble-track construction materials (optional)
 - Many kinds of dough make an excellent construction material. You could build an entire 3-D map on a baking sheet with baker’s dough, biscuit dough and play-dough—bake it or leave it to dry. Clay could work, too.
- A base for all of the above to sit on—your constructed landscape will need a slight incline, *enough for a marble to travel downward*. You can create this incline by slightly lifting the base on which you have constructed your land.
- You can also create this incline by actually placing your construction pieces so that your land has a slight incline.
- Maps of rural Mozambique and Bangladesh, where bicycle ambulances are currently in use (optional)
- Consider how large you would like your landscape to be. It could be anywhere from the size of a baking sheet (a baking sheet would make a great base) to the size of a tabletop. Please note that if you don’t have a means of slightly lifting up the base of your landscape—for instance, if you have built it on a heavy tabletop—then you will need to create the incline within the geography of your land.
- Marbles
- Materials to create two basic marble tracks that become part of your 3-D map. These tracks will represent a route that a bicycle ambulance might travel. Track materials could be:
- 2” by 5” sections of cardboard OR
 - paper towel rolls, halved and cut into sections
 - extra-large straws, thick enough to hold a marble
- Anything else that you would like to use to embellish your land:
- magazine pictures to create a colour collage
 - song and prayer excerpts, cut from old bulletins
 - glitter
 - old plastic toys
 - pressed flowers
 - anything, really



- Display space to eventually show your work to the congregation during coffee hour
- Someone to help you carry your 3-D map to the church hall during the last lesson
- Container to collect donations
- Announcement or bulletin feature about the Bicycle Ambulance Races at coffee hour

What to do

1. Show the PWRDF video about bicycle ambulances. Share your basic research, pointing out details of the land.
2. Show the children the construction materials that you have collected.
3. Along with the children, create a basic plan to create a 3-D map of an area in rural Mozambique or an area in Bangladesh. Depending on the size of the map that you want to create and how many children you have, choose either Mozambique or Bangladesh. You could also make two or more maps.
4. Everyone will bring different skills to this project.
 - Are you interested in cartography? Your 3-D map may be very accurate in look and size. You could even choose to integrate a real 2-D paper map of the area into your 3-D map.
 - Do you want your map to be more representational? Keep in mind the colours of the land as you viewed the Internet links above. Pay special attention to the construction of the houses and look of the trees. Explain to the children that the map is not completely accurate; you are creating a representation. Enjoy yourself and create a map that shows the feeling of the place.
5. As you construct your map, keep in mind that it will eventually become a marble track. So, you can either:
 - Build the incline that a marble needs into the geography of the 3-D map (remember, rural Mozambique is a series of plateaus); OR
 - You can eventually give a slight lift to the whole base of the map and sit it on a small block to create the incline.
6. Create two curving marble tracks of about the same length that can run through the land with:
 - 2" by 5" pieces of cardboard. Using a ballpoint pen, press firmly and draw a line down the centre of the cardboard piece. Now, using this

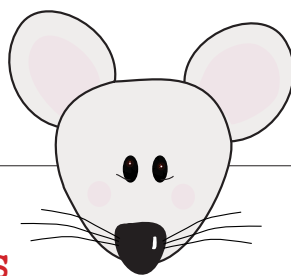


score line, fold the cardboard piece so that it resembles a “V.” Tape many of these pieces together, cutting them into smaller pieces if you want corners...OR

- An extra-large straw, cut in half lengthwise and then again into smaller sections, and taped together to provide curves and corners...OR paper towel rolls assembled in a similar way to the straws and cardboard above...OR
 - By using marble tracks if you have them.
7. Be resourceful and creative. Enjoy making your 3-D map. There are five lessons to work on this project, so take your time.
 8. As you work, you will find that you and the children come up with interesting ideas about building the houses of the area, the trees. Go with these creative ideas. They may lead you to some interesting places. This is where the learning happens.
 9. Once you are ready, start to build your marble track over your land. Build two tracks (two ambulance bicycle routes!) so you can have races over your land.
 10. You can still embellish your land once the marble tracks are set.
 11. During the last lesson, recruit someone to help you carry your map to the place where coffee hour is usually held.
 12. During coffee hour, collect donations from the congregation to have bicycle ambulance races with the marbles over your 3-D map.
 13. Review the basic facts about PWRDF and the Bicycle Ambulance Project.
 14. Send in the donations to PWRDF. Make cheques payable to “PWRDF” mark them for “Bicycle Ambulances” and send them to:

Primate’s World Relief and Development Fund
Anglican Church of Canada
80 Hayden St.
Toronto, ON M4Y 3G2
PWRDF Donations Contact:
Jennifer Brown
416-924-9192 ext. 355; 1-866-308-7973





Helpful Hints

- For more information about paper maché, review Creating Musical Instruments out of Recycled Materials
<http://www.anglican.ca/churchmice/resources/activity-sheets/creating-musical-instruments-from-recycled-materials/>
- If you have many very young children in your group, consider making the marble tracks yourself.

Note from the Church Mouse

While creating this lesson plan, I received a helpful tip from a fellow church mouse somewhere near Sarnia, Ontario:

“Do you want to make paper elephants? Fold a piece of paper in half; draw a small elephant (about 5 centimeters square) with the top of its back directly on the fold line. Cut out the elephant. Fold it in half. Stand it up on your land! Voilà—a lovely little elephant.”

