

Tele-Engineering



1923 - 2023

HB 100 JAM

Kander 100: Radio Scouting activities

1. Activity

Tele-Engineering

2. SDGs

4

3. GG hub

-

4. Ages

11+

5. Duration of the activity

20 - 30 minutes

6. Minimum of participants

2

7. Materials needed

2 or 4 identical sets of Lego-Duplo-bricks

2 or 4 PMR-handhelds

8. Location of materials

keep locked at Uncle Sams Cabin

9. Location of the activity

Uncle Sams Cabin and area

10. Description

Lead a building project with Lego bricks to your fellow scout by radio without seeing him. A real challenge. Will you succeed?

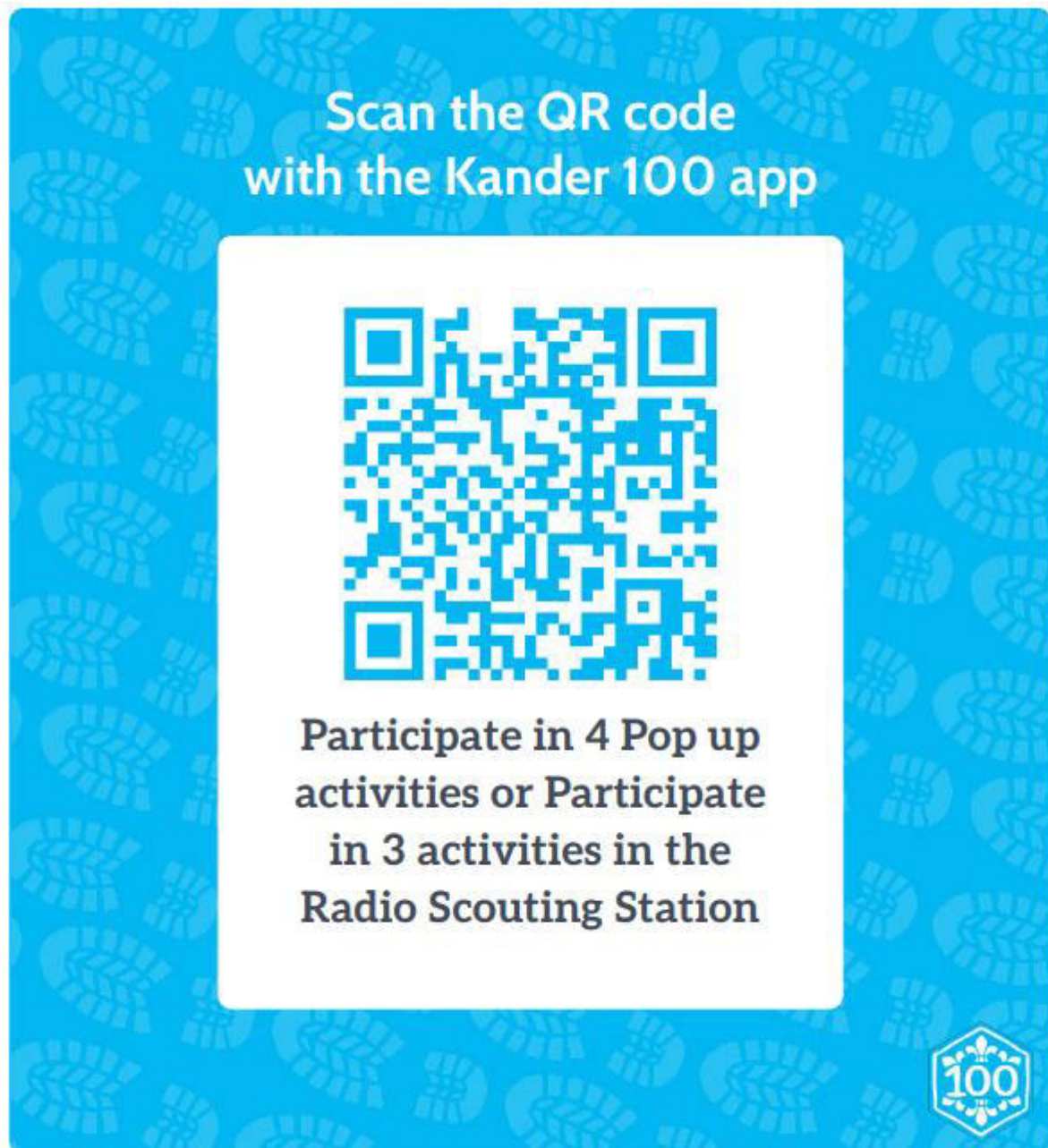
11. Badge

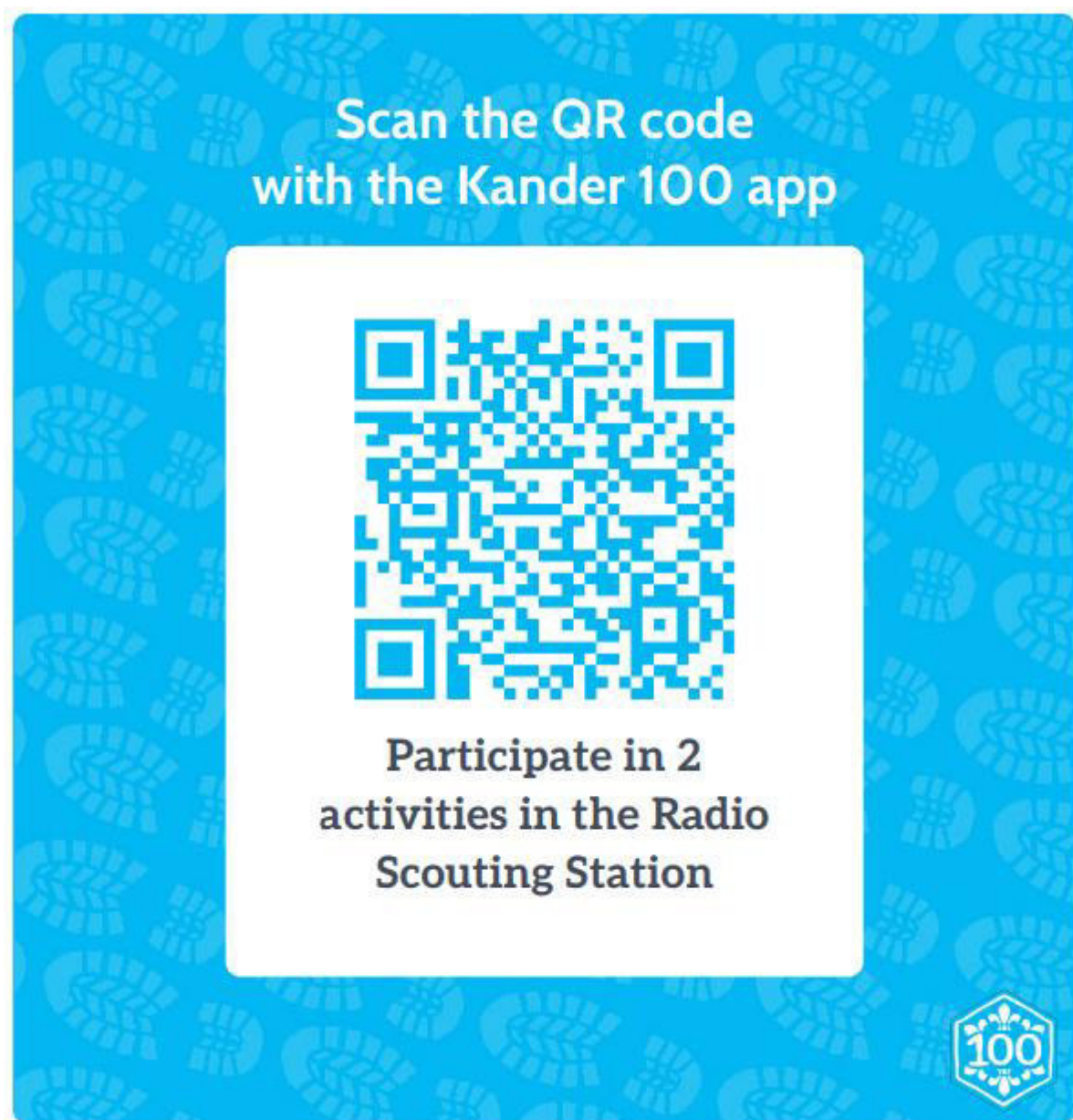
International Friendship Award

Radio Scouting Award

12. QR code to earn the badge.

International Friendship Award





13. Educational objective

Learn the international spelling table for communication. Learn how to communicate efficiently.

14. Before the activity

All equipment is stored at Uncle Sams Cabin.

Put up in the morning (takes at least 10 minutes).

Test if all radios work.

15. Instructions

Explain rules of efficient radio communication.

16. Reflective question

Was your radio communication efficient and successful?

Did you manage to rebuild the construction?

17. After the activity

Short information on the other activities in the Radio Scouting area and JOTA-JOTI.

Check if all Lego-Duplo bricks are back.

Only in the evening/night (when the station is closed down):

Switch off all radios, store everything in Uncle Sams Cabin, lock the door!

18. Training notes

None

19. Safety

Nothing particular

20. Accessibility

No limitations

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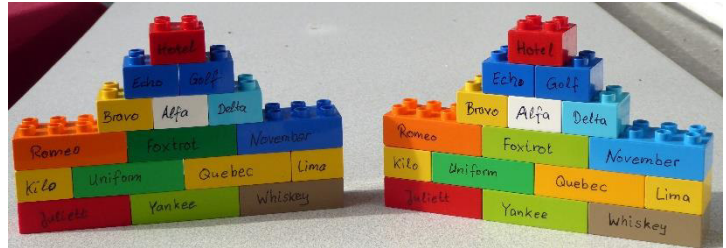
A

You are team **ALPHA**. You are cooperating with team **BRAVO**.

You have a set of Lego-Duplo-bricks and a radio, your cooperating team has the same.

Round 1:

You build a construction of a few bricks. Your challenge is to instruct your cooperating team BRAVO by radio to build the same construction. Meet again and check if both succeeded.



Round 2:

Change the roles: Team BRAVO build and explain by radio to you to rebuild.



Each brick has a name following the international spelling alphabet, like Alpha, Bravo, Charlie, Delta etc.

As the radio frequency might also be used by others you have to share it with them and therefore follow radio guidelines:

- Use your name „Team ALPHA“ and your cooperating „Team BRAVO“ as address. Always this way: **ADDRESSEE this is SENDER !**
- Between the messages leave a short break that others may also communicate.

Example:

1. Team BRAVO this is team ALPHA ... with the next brick explanation ..., over.
2. Short break.
3. Answer: Team ALPHA this is team BRAVO, roger, please the next step, over.
(If team BRAVO got the message.) OR

Team ALPHA this is team BRAVO, please repeat we have not understood..., over.

4. Short break.
5. Team BRAVO this is team ALPHA ... with the next brick explanation ..., over.



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Sources: Remko Welling, PE1MEW, <http://handboek.pe1mew.nl/?Spelidee%C3%ABn:Legopuzzel> / Mirjam Klaver, Thomas Pfaff („Pepe“), HB9EVT, <https://scoutnet.swiss/lego-bauwerk-kopieren/> further developed

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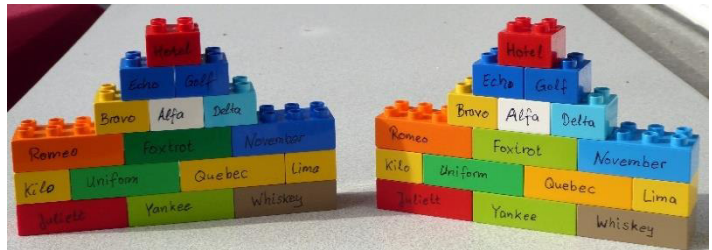
B

You are team **BRAVO**. You are cooperating with team **ALPHA**.

You have a set of Lego-Duplo-bricks and a radio, your cooperating team has the same.

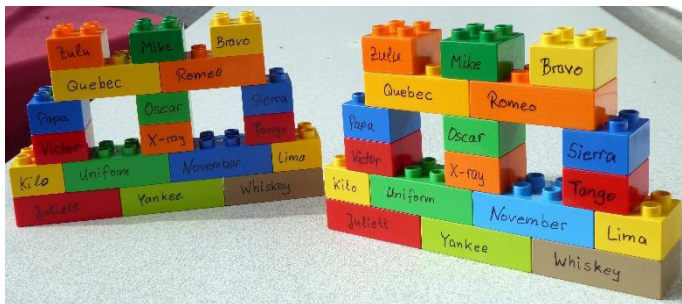
Round 1:

Team Alpha build a construction of a few bricks. Their challenge is to instruct you by radio to build the same construction. Meet again and check if both succeeded.



Round 2:

Change the roles: Now you build a construction and explain by radio to team ALPHA to rebuild.



Each brick has a name following the international spelling alphabet, like Alpha, Bravo, Charlie, Delta etc.

As the radio frequency might also be used by others you have to share it with them and therefore follow radio guidelines:

- Use your name „Team ALPHA“ and your cooperating „Team BRAVO“ as address. Always this way: **ADDRESSEE this is SENDER !**
- Between the messages leave a short break that others may also communicate.

Example:

1. Team BRAVO this is team ALPHA ... with the next brick explanation ..., over.
2. Short break.
3. **Your** answer: Team ALPHA this is team BRAVO, roger, please the next step, over.
(If you got the message.) OR

Team ALPHA this is team BRAVO, please repeat we have not understood..., over.

4. Short break.
5. Team BRAVO this is team ALPHA ... with the next brick explanation ..., over.



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C

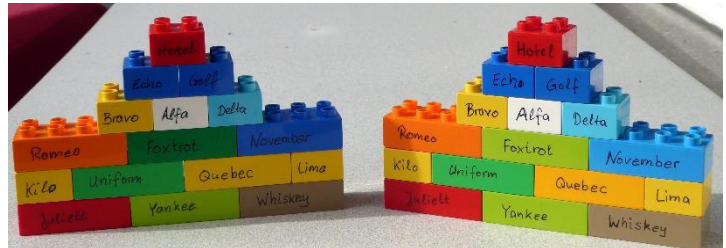
You are team **CHARLIE**. You are cooperating with team **DELTA**.

You have a set of Lego-Duplo-bricks and a radio, your cooperating team has the same.

Round 1:

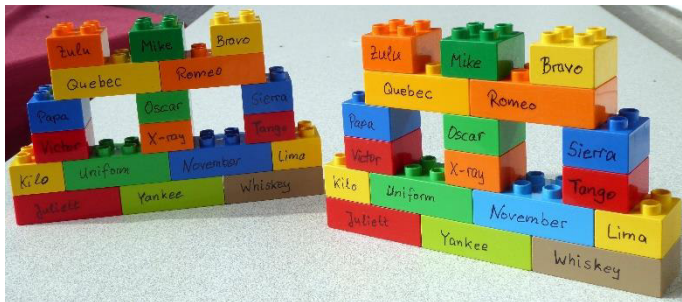
You build a construction of a few bricks.

Your challenge is to instruct your cooperating team DELTA by radio to build the same construction. Meet again and check if both succeeded.



Round 2:

Change the roles: Team DELTA build and explain by radio to you to rebuild.



Each brick has a name following the international spelling alphabet, like Alpha, Bravo, Charlie, Delta etc.

As the radio frequency might also be used by others you have to share it with them and therefore follow radio guidelines:

- Use your name „Team CHARLIE“ and your cooperating „Team DELTA“ as address. Always this way: **ADDRESSEE this is SENDER !**
- Between the messages leave a short break that others may also communicate.

Example:

1. Team DELTA this is team CHARLIE ... with the next brick explanation ..., over.
2. Short break.
3. Answer: Team CHARLIE this is team DELTA, roger, please the next step, over.
(If team DELTA got the message.) OR

Team CHARLIE this is team DELTA, please repeat we have not understood..., over.

4. Short break.
5. Team DELTA this is team CHARLIE ... with the next brick explanation ..., over.



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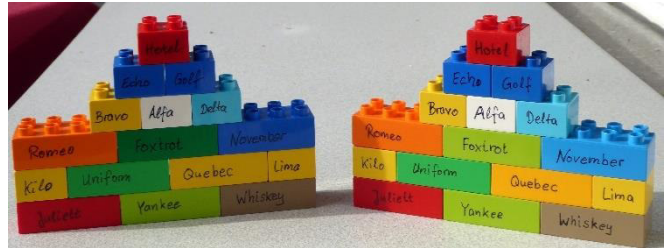
D

You are team **DELTA**. You are cooperating with team **CHARLIE**.

You have a set of Lego-Duplo-bricks and a radio, your cooperating team has the same.

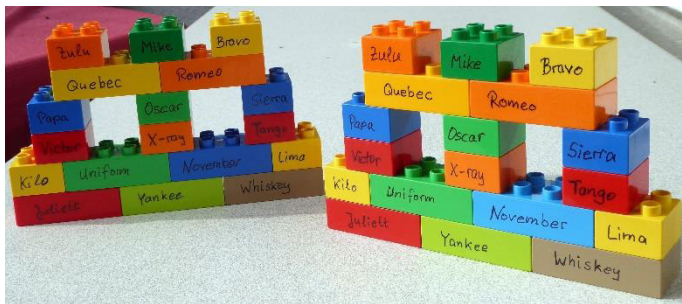
Round 1:

Team CHARLIE build a construction of a few bricks. Their challenge is to instruct you by radio to build the same construction. Meet again and check if both succeeded.



Round 2:

Change the roles: Now you build a construction and explain by radio to team CHARLIE to rebuild.



Each brick has a name following the international spelling alphabet, like Alpha, Bravo, Charlie, Delta etc.

As the radio frequency might also be used by others you have to share it with them and therefore follow radio guidelines:

- Use your name „Team CHARLIE“ and your cooperating „Team DELTA“ as address. Always this way: **ADDRESSEE this is SENDER !**
- Between the messages leave a short break that others may also communicate.

Example:

1. Team DELTA this is team CHARLIE ... with the next brick explanation ..., over.
2. Short break.
3. **Your** answer: Team CHARLIE this is team DELTA, roger, please the next step, over.
(If you got the message.) OR

Team CHARLIE this is team DELTA, please repeat we have not understood..., over.

4. Short break.
5. Team DELTA this is team CHARLIE ... with the next brick explanation ..., over.



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