



Dark Skies Rangers Game

Carlos Pinto, Agrupamento de Escolas Fontes Pereira de Melo, Portugal

The game

Number of participants: between 10 and 15

Number of teams: 3 (team C must have at least 3 members)

- This is a role play game. Each participant gets a card with his role and team.
- After the team being done, each team receives a paper with its mission and help links.
- The participants can get one hour for researching or can make the presentations in the next lesson.
- The research can be made with several tools, including stellarium, globeatnight, need-less.org, videos on youtube and the movie the city dark.
- In the City Hall Council, each team must defend its point of view with a presentation. The use of e-learning technologies like apps or portals or other resources will be valorized.
- After each presentation, the mayor and the council can make 3 questions, according their role in the cards.
- The city council team must have 3-5 members, including the mayor.
- In the end there will be a voting from the different counsellors. Each one of the team C must vote in Team A or Team B
- If the results are not unanimous, teams A and B will be invited to get to a consensual solution. Each counsellor (not the mayor) can help one of the teams in the negotiation process.

- If teams A and B get an agreement, there will be another voting by the city council: YES or NO.
- If the results are not unanimous, the members of team C will have to get to an agreement if they want to win the game.
- If teams A and B get no agreement, team C will have to get to an agreement if they want to win the game. If team C gets no agreement, the decision will be taken by votation.

Punctuation

- The game will be watched and supervised by a juri of one teacher and at least 2 students.
- If each member of the team is convincing defending his position, the team gets 1 point for that member
- In the votation for Team A or B, each team gets 1 point by vote. Team C receives 1 point by vote of the winner team.
- If they get to an agreement, each team (A, B and C) receives 2 points.
- If the votation for the agreement is not unanimous, team C loses 2 points and they'll receive 3 points only if they get to an agreement.



TEAM A

You live in an island where half of it is occupied with touristic buildings, which has been positive for island economy.

Most of you live in the south, the “dark” part of the island, where the tourism still didn’t arrive.

The Mayor is planning to build several hotels and a mall in the zone you live. The island where you live is important for birds migration and its beaches are important too for turtles reproduction. It has also a great night sky view, very known by several astronomers.

In the City Hall council, you have to make a presentation against the buildings, using arguments against light pollution and in favour of another kind of tourism.

After you make your presentation and listening the TEAM B presentation, you can try to conciliate your goals with their arguments.

Suggestions of apps and links for research:

- Movie “The city dark”
- Light pollution simulation with stellarium
- <http://vimeo.com/54089280>
- <https://www.youtube.com/watch?v=YToSKu2ECmc>
- <http://www.need-less.org.uk/>
- <http://www.darkskyalqueva.com/>



TEAM B

You live in an island where the north side is occupied with touristic buildings, which has been positive for island economy.

Part of you live in the touristic part of the island, which have been positive for your well-being.

The Mayor is planning to build several hotels and a mall in the south part of the island. The island where you live is important for birds migration and its beaches are important too for turtles reproduction.

In the City Hall council, you have to make a presentation supporting the buildings, using arguments that support tourism and the island economy.

After you make your presentation and listening the TEAM B presentation, you can try to conciliate your goals with their arguments, in order to respect the environment.

Suggestions of apps and links for research:

- Movie "The city dark"
- Light pollution simulation with stellarium
- <http://vimeo.com/54089280>
- <https://www.youtube.com/watch?v=YToSKu2ECmc>
- <http://www.need-less.org.uk/>
- <http://www.darkskeyalqueva.com/>



TEAM C

- You're the leaders of an island where half of it is occupied with touristic buildings, which has been positive for the island economy and investments in health and education.
- The other side of the island is almost desert, composed with small villages living of activities connected to the primary sector.
- The island is important for birds migration and its beaches are important too for turtles reproduction.
- The Mayor is planning to build several hotels and a mall in the other part of the island.
- There are people against and for the buildings.
- There will be a session in the City Hall where the different parts will show their points of view.
- Each counsellor can make a small speech about his point of view after listening the presentations and can make 3 questions to each team.
- In the end there will be a voting from the different counsellors. Each one of the team C must vote in Team A or Team B
- If the results are not unanimous, teams A and B will be invited to get to a consensual solution. Each counsellor (not the mayor) can help one of the teams in the negotiation process.



TEAM C

- If teams A and B get an agreement, there will be another voting: YES or NO.
- If the results are not unanimous, the members of team C will have to get to an agreement if they want to win the game.

Suggestions of apps and links for research:

- Movie "The city dark"
- Light pollution simulation with stellarium
- <http://vimeo.com/54089280>
- <https://www.youtube.com/watch?v=YToSKu2ECmc>
- <http://www.need-less.org.uk/>
- <http://www.darkskyalqueva.com/>