

## Project 2: Grid Game

Ms. Mafteecher works at the same school as Ms. Frizzle, however, she teaches grade 6. As Ms. Frizzle, she has a few students who always finish their work early. It would be useful if these efficient students could use their cell phones to play games, but the grade 6 wi-fi was accidentally damaged when Stan Dupp kicked a soccer ball at the router. When Ms Mafteecher was talking to Ms. Frizzle, she found out that it was possible to get custom apps that don't require the wi-fi to work. However, she'd like them to be a little more challenging. Grade 6s have started learning about the Cartesian plane and x, y co-ordinates, so a game with a grid in it would link to their curriculum.

Thus, Ms. Mafteecher would like you to code some moderately complex apps for the students who finish their work early. The app can be a one player or two player app. A grid should appear on the screen. You should have many levels for the grade 6s to play that increase in complexity (or the game should randomly create new levels). You should have a clear theme and colour scheme.

### Grid Game Details:

- You should name your app something like: GorskiMinesweeper.
- You will need an icon that matches your theme.
- You may add screens if you wish.
- This can be coded in Eclipse or Ready to Program OR in Android Studio.
  - If you are using Android Studio, 350 pixels wide by 500 pixel high fits on Ms. Gorski's phone with room to spare.
  - If you are using Eclipse or Ready to Program, the computer Ms. Gorski will run it on fits 1350 x 720 nicely. You may make your screen smaller than that, but it cannot be larger than that. Remember Ms. Gorski is blind. Her screen settings are giant.
- Do not merely pick colours yourself. Choose a theme, pick colours from the artwork associated with that theme. If you have used a default colour (Eg #FF00FF) that is a bad sign.
- If you need a lot of pictures, I recommend: <http://www.iconarchive.com/categories.html> or <https://opengameart.org/users/kenney>. In fact, you may wish to pick your theme based on the pictures you can find. Do not STRETCH or PIXELATE your pictures. Maintain the dimensions or chop them off.

### Recommended Games:

