



Leap Frog

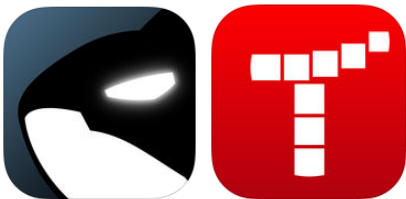
Code your 'frog' drone to land safely on as many lily pads as you can. Avoid the water as gators lurk beneath the surface!

You Need

- Travis or Mars minidrone (they both do the same thing)



- An iPad with Tickle or Tynker app



- Lilly pads, a metre stick and some scrap paper and pencil for your notes.

Your Task

Place up to five lily pads on the floor. You may choose to place them in a straight line to work on calculating and coding over distances or you may scatter them about where angles must also have to be considered in your coding.



Starting from the first lily pad, write code to "hop" from one pad to the next. Take careful measurements between each pad! Your frog drone must land and pause on each pad (must have all 4 'legs' on a pad to count) before your code takes it to the next pad. You get one point for each successful landing. If your drone misses a lily pad and hits the water (the floor) it must return to the start and your team must redesign your code. Beware the hungry alligators!