On the Subject of The Blue Button

This is a button. It is blue.

Stage 1: Note the cyclic sequence C of polyominoes and their colors. Without rotating them, place them on a grid Z, 5 tiles wide and 4 tiles tall, such that same-color polyominoes do not touch orthogonally. The grid wraps around in both directions (it is <u>toroidal</u>). Tap the button.

Stage 2: Find three consecutive polyominoes J, K, L in C whose colors occur consecutively in this cyclic sequence of N colors. Tap the button when Q, the color after the one corresponding to L, is highlighted.

Stage 3: The absolute differences between each equation's true result and the one shown are N, D, X, M (in that order). Tap the button M times.

Stage 4: Press the button four times, with time intervals R, A, B between presses, to perform an action (table 1). Swap the suits such that diamonds is at position D and the remaining suits are in order P (table 2). Then convert the fillings, left to right, to numbers E, F, G, H (table 3). Submit to proceed to the next stage.

Stage 5: Find S, the Xth tile in K in reading order, within Z, and T, U, V, W, the next 4 tiles going right from S. Move S, T, U and V down by E, F, G and H, respectively. Translate S, T, U, V, W to letters by noting which of their edges are edges of a polyomino (table 4). Use the underlined letter if a tile is part of a pentomino (a 5-tile polyomino). Enter the resulting word by tapping the button when the correct sections of the alphabet and individual letters are highlighted.

Hold the button to return to stage 1 at any time.
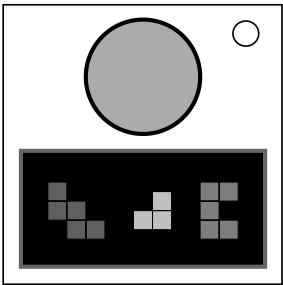
	A < R	A > R
B < R	swap 1 & 2	swap 2 & 3
B > R	swap 3 & 4	submit

Table 1

Q	P
blue	♠♥♣
green	♠♣♥
cyan	♥♠♣
red	♥♣♠
magenta	♣♠♥
yellow	♣♥♠

Table 2

♠	♠	♠	♠
0	1	2	3

Table 3

Z	M V	X
<u>D</u> Y	<u>N</u> L	<u>U</u> B	K J
<u>A</u> R		<u>S</u> O	<u>E</u> P
C F	<u>I</u> T	H G	W Q

Table 4