

## TOPIC 3: GEOPHYSICS WORKSHEET

Here is some data from a geophysical survey.

21	10	46	68	11	13	39	11	59	46	37	30	12	13	25	23	26	12	11	38
21	31	23	51	20	21	38	18	61	49	16	31	12	12	14	13	24	11	12	37
34	38	31	31	19	26	39	12	43	75	28	16	11	11	71	53	25	34	17	17
36	15	30	22	26	25	31	16	56	42	15	32	29	42	73	65	49	30	18	20
38	19	29	32	32	38	38	15	73	48	30	15	12	48	76	71	62	31	13	27
16	18	30	33	16	22	14	19	44	53	28	33	28	18	42	57	26	38	27	24
29	19	34	34	33	35	37	20	42	62	31	34	13	27	24	14	27	35	14	19
34	20	28	35	13	13	23	14	44	76	33	14	11	16	13	12	36	37	39	23
68	48	41	34	18	36	59	72	45	51	39	35	14	23	11	22	28	20	15	18
53	58	69	56	39	37	44	56	47	36	38	13	12	23	15	22	29	19	16	22
17	20	30	36	31	23	24	21	24	35	39	31	25	26	23	21	22	36	17	39
28	3	15	37	29	23	29	23	12	18	34	36	24	16	35	36	30	68	62	45
36	21	16	27	17	24	11	22	25	11	38	25	14	30	16	57	57	45	18	57
21	13	14	11	28	29	25	15	23	34	26	32	15	51	42	45	68	35	19	21
20	22	27	35	16	25	36	19	26	27	23	37	60	73	17	20	31	34	21	20
16	22	17	43	29	39	25	35	23	33	59	59	20	24	17	19	35	33	15	37
37	56	58	69	57	45	26	16	44	56	41	12	28	17	20	18	16	20	21	14
48	24	38	13	15	69	72	58	45	32	57	33	16	17	22	37	34	32	11	31
19	21	25	18	14	26	21	13	27	28	29	38	19	30	39	18	31	21	12	13

This grid of numbers shows the different measurements collected at each position by the magnetometer. The higher the numbers, the more magnetic the soil is – this means more human activity at that location.

Colour the squares which have numbers over 40 in red, then look at the shapes you find.

**Can you find the corner of a building?**

**Can you find a large rubbish pit?**

**Does it have a doorway?**

**What would a church look like in the data?**

**Can you find a wiggly ditch?**