

# Asynchronous Activity 1, Worksheet

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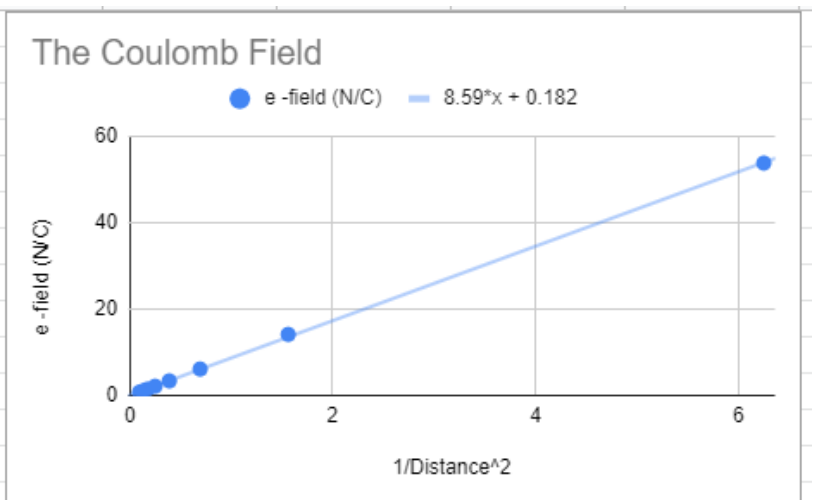
### 1 How to Submit this Worksheet

1. Download this PDF to your device.
2. Complete the procedure below.
3. Scan your document into a PDF using a Smartphone app, or simply a photo. One example app is SimpleScanner. Websites also exist to convert jpg to PDF format (e.g. <https://smallpdf.com/jpg-to-pdf>).
4. Upload your worksheet PDF to Moodle via the submission link.

### 2 The Procedure

Repeat the procedure performed in the tutorial videos on Moodle: *Asynchronous Lesson 1, parts 1 and 2*. However, choose your own distances in the  $E$  vs.  $r$  calculation, and your own charge values in the  $E$  vs.  $q$  calculation. Graph your results below, and label the axes of the graphs with the correct units.

Distance (m)	1/Distance^2	e -field (N/C)
0.4	6.25	53.7
0.8	1.5625	14.2
1.2	0.6944444444	6.21
1.6	0.390625	3.48
2	0.25	2.25
2.4	0.1736111111	1.56
2.8	0.1275510204	1.14
3.2	0.09765625	0.88



Charge	e -field (N/C)	*at 1.5m
2	7.69	
4	15.4	
6	23	
8	30.6	
10	38.1	
12	45.6	
14	53.2	
16	60.7	

