

Physics - Key Stage 4 - Electricity

# Electric Fields Worksheet

Miss Walrond



# Electric Fields - Positive charges

1. Draw a field diagram for a positive point charge.
2. Label where the field is strongest.
3. Label where the field is weakest.



# Electric Fields - Negative charges

1. Draw a field diagram for a negative point charge.
2. Label where the field is strongest.
3. Label where the field is weakest.



# Independent Task - Electric Fields part 1

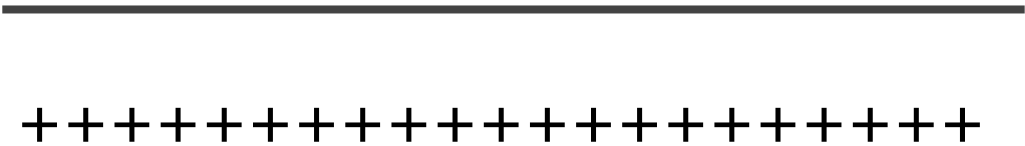
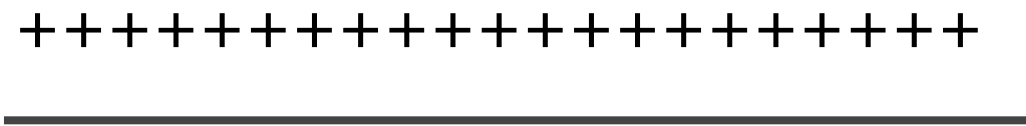
Complete the sentences.

- 1) Electric fields exist around all....
- 2) When the field lines are closest together it shows ...
- 3) When the field lines are furthest apart it shows...
- 4) The field lines show the direction of the force felt by ...



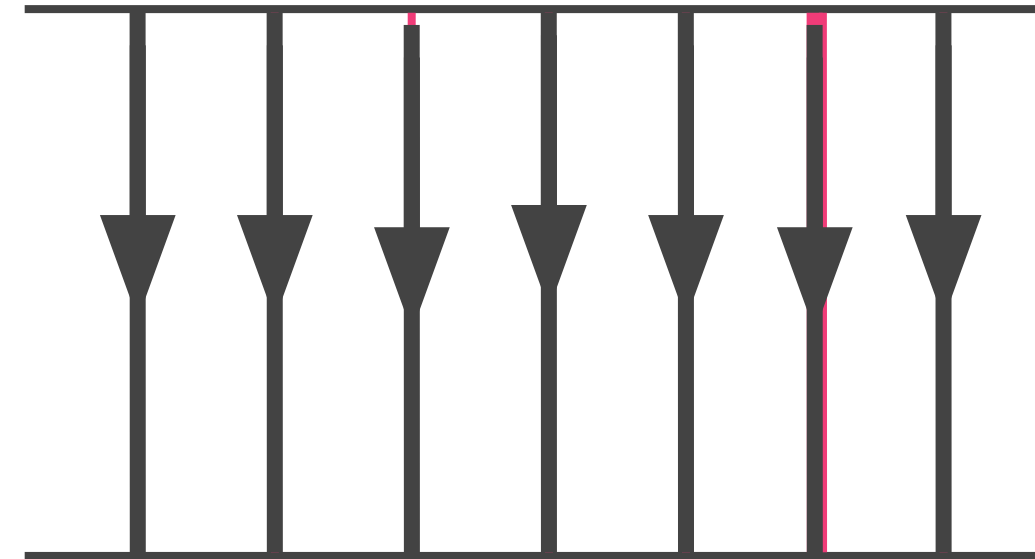
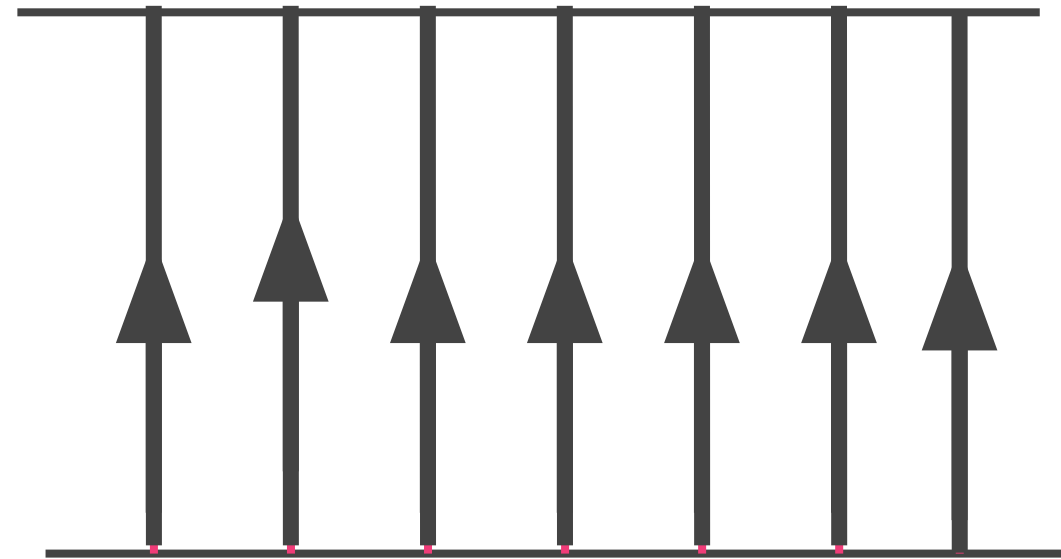
# Independent Task - Electric Fields between objects part 1

Draw the electric fields in these diagrams.



# Independent Task - Electric Fields between objects part 2

Identify if the plates are positive or negative.



# Electric Fields - between charges

- 1) Draw a field diagram between a positive and a negative charge.
- 2) Which way are the field lines shown?



# Answers





# Review: Independent Task - Electric Fields

Complete the sentences.

- 1) Electric fields exist around all **charged objects**.
- 2) When the field lines are closest together it shows **the field is strongest**.
- 3) When the field lines are furthest apart it shows **the field is weakest**.
- 4) The field lines show the direction of the force felt by a **positive** charge.

