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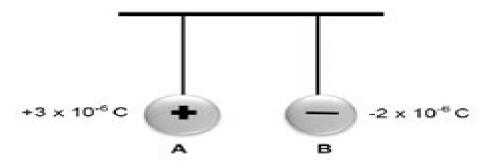
# Electrostatics worksheet lesson 1

2021/2022

#### Question 1

ISU Physics

Two small identical spheres, A and B, are suspended on long silk threads, as shown in the sketch below. The spheres carry charges of +3 x 10<sup>-6</sup> C and -2 x 10<sup>-6</sup> C respectively.



1.1 Which sphere has an excess of electrons and why (Aiii 3-4)?

The two spheres are allowed to touch.

1.2 Will the electrons be transferred from A to B or B to A (Ai 1-2)?

The spheres are now separated.

- 1.3 Calculate the new charge on sphere B (Aii 3-4).
- Calculate the number of electrons transferred during contact (Aii 1.4 5-6).

# **Physical Science Grade1term3 Electrostatics**

**Michael Hoelscher** 

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