Question	Answer	Marks	Guidance
4 (a)	(delocalised) electrons  Diagram showing a regular arrangement of labelled 'Ba'' ions' or '2* ions' and some attempt to show electrons   Scattering of labelled electrons between other species AND statement anywhere of delocalised electrons (can be in text or in diagram)   The attraction between (positive) ions and (delocalised) electrons is strong   The attraction between (positive) ions and (delocalised)	3	Regular arrangement must have at least two rows of correctly charged ions and a minimum of two ions per row  ALLOW as label: positive ions, cations if correct charge is seen within circle  ALLOW for labelled Ba <sup>2+</sup> ions: circles with Ba <sup>2+</sup> inside  DO NOT ALLOW incorrect charge for ions eg + , 3+ etc  DO NOT ALLOW for label of ions: nuclei OR positive atom OR protons  ALLOW e <sup>-</sup> or 'e <sup>-</sup> or - as symbol for electron within the lattice for first marking point if not labelled as 'electrons'.  ALLOW mobile or 'sea of 'for delocalised  Quality of written communication: 'electron(s)' spelled correctly and used in context for the third marking point ALLOW a lot of energy is needed to break OR overcome the attraction between (positive) ions and (delocalised) electrons IGNORE 'heat' but ALLOW 'heat energy'  DO NOT ALLOW references to incorrect particles or incorrect attractions eg 'intermolecular attraction' OR 'nuclear attraction'  IGNORE 'strong metallic bonds' without seeing correct description of metallic bonding

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