Assessment	Method	Туре	Description	Sample	Timepoint
Name				n (units)	
BRE Study ^a	Fieldwork by BRE	Sensors	Formaldehyde, toluene and other volatile organics	174 (homes)	Antenatal to
			Nitrogen dioxide		G1 6m
			Fungi, house dust mite and bacteria		
			Temperature and humidity		
Heavy	Antenatal clinic	Biosample	Lead, cadmium and total mercury concentrations (venous blood) ^c	4285, 4286, 4134,	Antenatal
metals	ICP-DRC-MS ^b			respectively (G0)	
	Maternity hospital	_	Lead, cadmium and total mercury concentrations (cord tissue) ^f	889, 2832, 2600,	Birth
	ICP-OES ^d /ICP-MS ^e			respectively (G0/G1)	
CiF NO2	Tubes sent by	Sensor	NO ₂ measured using inside child's bedroom (<i>Palmes tube</i>)	1,200 (<i>G1</i>)	G1 3-12m
Study	post		NO ₂ outside the front of the house (<i>Palmes tube</i>)	700 (homes)	
CO Study	Fieldwork	Sensor	CO indoor background (Draeger diffusion tube)	80 (<i>homes</i>)	G1 96-124m
			CO exhaled breath (Bedfort EC50 ToxCO breath CO monitors)		
		Biosample	Carboxyhaemoglobin and methaemoglobin levels (venous blood)		

G1 12m	1,219 (<i>G0</i>)	Alveolar carbon monoxide concentrations (Bedfort EC50 ToxCO	Sensor	Focus Clinic	CiF Alveolar
		breath CO monitors)			CO Study
G1 30m	582 (G1)	Blood lead concentration in G1 children (venous blood)	Biosample	Focus Clinic	Heavy
				AAS ^g	metals
on Various	Various n depending on	Variables including:	Quest-	Self Report by	Indoor
times from	time point	Type of housing, including storey	ionnaires	mothers	Environment
pregnancy		Degree of damp and mould in each room			
through		Frequency with which windows were opened in summer/winter			
childhood		Type of heating and cooking used			
		Wall-papering, painting, new furniture or carpets and in which rooms			
		Household/Occupational/Hobby chemical use			
		Noise			
on Various	Various n depending on	Variables including:	Quest-	Self Report by	Outdoor
times from	time point	Traffic density on the road	ionnaire	mothers	Environment
pregnancy		Modes of transport			& Lifestyle
		Time spent outdoors			
		Type of heating and cooking used Wall-papering, painting, new furniture or carpets and in which rooms Household/Occupational/Hobby chemical use Noise Variables including: Traffic density on the road Modes of transport			Environment

			Mothers and fathers/partners occupational history (coded to SOC90)		through
			Neighbourhood quality		childhood
School	Head Teacher	School-	Variables including:	Head teacher 1017 and	School-years
Environment	Report	based	Distance to road	1004 responses; class	3 and 6
		Quest-	Noise	teacher 1339 and 1435	
		ionnaire	Building and facility quality	class teachers	

^a The Building Research Establishment (BRE) study was of 174 homes (quasi-random selected) and each assessed over a 12 month period

^bICP-DRC-MS, inductively coupled plasma dynamic reaction cell mass spectrometry;

^cIn addition: Se.

^d ICP-OES, inductively coupled plasma optical emission spectrometry.

^eElements (except Pb) were assayed by ICP-OES (n=2005), except for Se and Hg, which were measured by atomic fluorescence techniques

(hydride generation and cold vapour, respectively); the final 911 samples were assayed for these elements plus Pb by ICP-MS.

^fIn addition: Se, Mg, Ca, Cr, Mn, Fe, Co, Ni, Cu, Zn, Sr, Mo, Sb, K.

^gAAS, atomic absorption spectroscopy;