Table S1: Food items, macronutrient composition and weight of food consumed during the high fat/low carbohydrate and low fat/high carbohydrate conditions. Breakfast, dinner and snack box meals were *ad libitum*, while the lunch meals were fixed.

	Food Item		
	HFLC	LFHC	
Breakfast			
	Cereal (Kellogg's Corn Flakes)	Cereal (Kellogg's Corn Flakes)	
	Full fat milk	Semi skimmed milk	
	White bread- toasted (Sainsbury's medium sliced)	White bread- toasted (Sainsbury's thick sliced)	
	Scrambled egg (Sainsbury's large, free range eggs and Sainsbury's 70% fat Sunflower margarine)	Scrambled egg (Sainsbury's large, free range eggs)	
	Butter (Lurpak spread)	Margarine- Low fat (Flora Light margarine)	
% СНО	Granulated sugar 28.8 ± 1.4	Granulated sugar 52.9 ± 2.0	
% Protein	17.6 ± 0.3	17.8 ± 0.7	
% Fat Weight (g)	53.6 ± 1.2 372.3 ± 17.8	29.2 ± 1.3 371.4 ± 15.1	
Lunch	Cheese Sandwich- bread (Sainsbury's medium sliced white bread), butter (Lurpak spread), cheese (Sainsbury's English Medium Cheddar) and lettuce	Cheese Sandwich- bread (Sainsbury's thick sliced white bread), margarine (Flora Extra Light spread), low fat cheese (Sainsbury's Be Good to Yourself Mature White Cheese) and lettuce	
	Crisps (Pringles Original)	Crisps (Pringles Light)	
	Caramel short cake (Sainsbury's caramel short cake)	Choc Chip Slice (Sainsbury's)	
% CHO	33.6 ± 0.1	62.6 ± 0.4	
% Protein	11.9 ± 0.0	13.1 ± 0.1	
% Fat Weight (g)	54.5 ± 0.2 456.4 ± 1.0	24.3 ± 0.5 451.6 ± 1.0	
Dinner	High Fat Pizza Garlic bread (Safeway Garlic bread slices)	Low Fat Pizza French bread and margarine (Flora Extra Light spread)	

	Coleslaw (Sainsbury's Coleslaw salad)	Lettuce, Tomato and cucumber
	Chocolate biscuits (Penguin)	Malt loaf (Soreen malt loaf)
	Shortbread fingers (Sainsbury's all butter highland shortbread fingers)	Swiss roll (Sainsbury's Raspberry Swiss Roll)
	Crisps (Walkers ready salted)	Apple
% CHO	30.7 ± 0.3	67.3 ± 0.5
% Protein	13.8 ± 0.3	13.3 ± 0.2
% Fat	55.5 ± 0.3	19.4 ± 0.2
Weight (g)	443.6 ± 17.5	536.9 ± 24.6
Snack Box	Jacobs TUC biscuits	McVities jaffa cakes
Since Dox	Cookies (Sainsbury's choc chunk & hazelnut)	Garibaldi biscuits (Sainsbury's)
	Flapjack (Sainsbury's all butter flapjack)	Jelly babies (Bassett's)
	Chocolate (Cadbury's fruit & nut mil)k	Bananas
	Salted peanuts (Sainsbury's jumbo)	
% CHO	32.0 ± 1.7	81.7 ± 0.8
% Protein	10.0 ± 0.7	5.6 ± 0.1
% Fat	58.3 ± 1.2	12.5 ± 0.8
Weight (g)	142.7 ± 18.4	219.3 ± 21.1