

Supplementary Materials

	Experiment 1		Experiment 2		Experiment 3 – Set 1		Experiment 3 – Set 2	
	Healthy	Unhealthy	Healthy	Unhealthy	Healthy	Unhealthy	Healthy	Unhealthy
Trained	Carrot	Lovehearts ¹	Strawberries	Jelly beans ¹	Carrot	Crisps	Carrot	Crisps
	Rice cakes	Chocolate	Rice cakes	Chocolate	Blueberries	M&Ms ²	Rice cakes	Chocolate
	Apple	Jelly babies ¹	Apple	Jelly babies	Raspberries	Marshmallow	Apple	Marshmallow
	Banana	Crisps	Banana	Cola bottles ¹	Grapes	Lovehearts	Banana	Cola bottles
			Cucumber	Donut				
			Melon	Fries				
Novel	Celery	Donuts	Orange	Ice cream	Pears	Cake	Raspberry	Jelly babies
	Cucumber	Cupcakes	Cherries	Biscuits	Kiwis	Biscuits	Strawberry	M&Ms
	Orange	Mini-eggs ²			Pineapple	Cookies	Orange	Donuts
	Pineapple	Biscuits			Raisins	Lollypop	Grapes	Biscuits

Supplementary Table 1: Foods included in the food choice shopping task for each experiment of Study 1.

¹*Lovehearts, jelly babies, jelly beans and cola bottles are all commonly consumed sweets in the UK.*

²*M&Ms and mini-eggs are small chocolate candies commonly consumed in the UK.*

	Set 1		Set 2	
	Healthy	Unhealthy	Healthy	Unhealthy
Trained	Red apple	White chocolate	Green apple	Milk chocolate
	Green grapes	Marshmallows (pieces)	Red grapes	Marshmallows (plaits)
	Cucumber	Biscuit	Carrot	Cookie
	Strawberries	Cola bottles ¹	Raspberries	Gummy bears ¹
Novel	Blueberries	M&Ms ²	Kiwi	Skittles ¹
	Orange	Jam donut	Banana	Ring donut

Supplementary Table 2: Foods included in the food choice shopping task (hypothetical food choice) for each card set of Study 2.

¹*Cola bottles, gummy bears and Skittles are all commonly consumed sweets in the UK.*

²*M&Ms are small chocolate candies commonly consumed in the UK.*

Study 1 (Experiments 1 & 2)		Study 1 (Experiment 3)		Study 2	
Healthy	Unhealthy	Healthy	Unhealthy	Healthy	Unhealthy
Apple	Crisps	Apple	Crisps	Red apple	White chocolate
Banana	Cola bottle ¹	Banana	Cola bottle	Green apple	Milk chocolate
Blueberry	Jelly baby ¹	Blueberry	Jelly baby	Carrot	Marshmallow pieces
Carrot	Jelly bean ¹	Carrot	Jelly bean	Cucumber	Marshmallow plaits
Raspberry	Marshmallow	Raspberry	Marshmallow	Strawberry	Cookie
Strawberry	Loveheart ¹	Strawberry	Loveheart	Raspberry	Biscuit
Rice cake	Chocolate buttons	Rice cake	Chocolate buttons	Red grapes	Cola bottle
Tomato	M&M ²	Grapes	M&M	Green grapes	Gummy bears ¹

Supplementary Table 3: Foods included in the training tasks of each experiment.

¹*All commonly consumed sweets in the UK.*

²*Commonly consumed chocolate candies in the UK.*

Well done on the game!

We have one last question:

Could you please tell us how hungry do you feel now?

Could you circle the number that best shows how hungry you feel right now

1 meaning you aren't hungry at all

9 saying you feel very hungry

1	2	3	4	5	6	7	8	9
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Not hungry

Very hungry

Well done on the game!

We have one last question:

Could you please tell us how hungry do you feel now?

Could you circle the **number** that best shows how hungry you feel right now

0 meaning you feel full (not hungry at all)

10 meaning you feel very hungry

Full Quite Full Not hungry or full Quite Hungry Very hungry

0 1 2 3 4 5 6 7 8 9 10



Supplementary Figure 1: Hunger scales used in Study 1, Experiment 1 (left) and all other experiments (right)

Sample Number		Active Condition (<i>n</i> = 72)	Control Condition (<i>n</i> = 70)	<i>F</i> / χ^2	<i>p</i>
Overall (all three samples)	Gender				
	Female	38	36	$\chi^2_1 = .026$	.872
	Male	34	34		
	Age	7.76 (1.63)	7.61 (1.73)	$F_{1,139} = .27$	.606
Hunger	5.14 (3.12)	5.31 (3.19)	$F_{1,140} = .11$	.741	
Experiment 1	Gender				
	Female	13	11	$\chi^2_1 = .300$	.584
	Male	14	16		
	Age	8.26 (1.58)	8.15 (1.54)	$F_{1,52} = .07$	.795
Hunger	6.15 (2.32)	6.11 (2.91)	$F_{1,52} = .00$	.959	
Experiment 2	Gender				
	Female	11	13	$\chi^2_1 = .196$	.658
	Male	10	9		
	Age	7.19 (1.91)	7.09 (2.04)	$F_{1,41} = .03$	.870
Hunger	4.38 (3.77)	4.91 (3.07)	$F_{1,41} = .26$	.617	
Experiment 3	Gender				
	Male	14	12	$\chi^2_1 = .007$	.936
	Female	10	9		
	Age	7.70 (1.22)	7.48 (1.47)	$F_{1,43} = .29$	.592
Hunger	4.67(3.10)	4.71 (3.55)	$F_{1,43} = .00$	.962	

Supplementary Table 4: Participant characteristics for each experiment individually and the combined sample of Study 1.