## APPENDIX A

### (i) VARIABLE DESCRIPTION

<table>
<thead>
<tr>
<th>Composite variables</th>
<th>Original variables</th>
<th>Variable labels</th>
<th>Composite variables</th>
</tr>
</thead>
</table>
| Substance use risk 1-6 | **Definitions were:**  
Smoking: Cigarette smoking status (currently smoke)  
Drinking: Alcohol drinking status (Usually have an alcoholic drink once a month or more frequently)  
Cannabis: Cannabis use status (Ever tried cannabis) | SmkSt2  
alcfrq1  
Cantry | Alcohol + smoking + cannabis  
(1) Smoking risk: If currently smokes  
(2) Drinking risk: If drinks once a month or more frequently  
(3) Cannabis risk: If ever tried cannabis. Each item was coded 0 for “no” and 1 for “yes”. The composite score obtained ranged from zero to three based on the number of risk behaviours; (0= None, 1= Only one, 2=Any two and 3 =All three |
| Physical activity 7-8 | **Physical activity: in line with general recommendations**  
How many days physically active for 60+ minutes, in last 7 days ( Active for more than 5 days )  
How often usually exercise in free time (Active for more than twice a week)  
How many hours usually exercise in free (Active for an hour or more) | Physact  
ExerOft  
ExerHrs | Duration of exercise + Frequency of exercise + Number of days met recommended guidelines  
The first question on moderate to vigorous physical activity was “Over the past 7 days, on how many days you were physically active for a total of at least 60 minutes per day and responses ranged from 0 to 7. Second, the participants were asked “Outside school hours: how often do you usually exercise in your free time so much that you get out of breath or sweat?” with responses from less than a once a month to every day. The question on duration was “Outside school hours: how many hours do you usually exercise in your free time so much that you get out of breath or sweat?”, with responses from none to 7 or more hours. Adolescents who exercised for more than twice a week for an hour or more or were physically active for 60+ minutes for at least 5 days were classified as “physically active” and the rest “physically inactive”. |
| Sleeping habits 9-10 | **Sleeping frequency in last week**  
How often slept 8+ hours per night in last 7 days | Sleep8pn | The question was “Over the past 7 days, how often did you sleep for 8 hours or more” and the responses were “every day”, “most days”, “some days” and “not in the past 7 days”. |
Eating Habits 11-13

<table>
<thead>
<tr>
<th>Definition of each unhealthy eating habits were:</th>
<th>Breakfast consumption + take away food + 5 A day</th>
</tr>
</thead>
<tbody>
<tr>
<td>How often eaten take-away food in last 7 days (unhealthy habit if taken takeaway in past seven days)</td>
<td>(1) Skipping Breakfast: If avoided breakfast in last 7 days</td>
</tr>
<tr>
<td>How often eaten breakfast in last 7 days (unhealthy habit if breakfast not taken regularly)</td>
<td>(2) Poor diet: If consumed less than 5 portions of fruits and vegetables a day</td>
</tr>
<tr>
<td>Consumed more than five portions of fruit and veg yesterday (unhealthy habit if 5-A-DAY not taken regularly)</td>
<td>(3) Takeaway food: If consumed takeaway food in past 7 days. Each item was coded 0 for “no” and 1 for “yes”.</td>
</tr>
</tbody>
</table>

Screen time 8-14-16

<table>
<thead>
<tr>
<th>Definitions of screen time derived as follows (Weekend and weekday hours combined)</th>
<th>TV + computer games + internet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours per day watching TV</td>
<td>Watchwk, Watchwe</td>
</tr>
<tr>
<td>Hours per day spent playing computer games</td>
<td>Compwk, Compwe</td>
</tr>
<tr>
<td>Hours per day spent on computers for communicating, or homework</td>
<td>Comphwk, Comphwe</td>
</tr>
<tr>
<td>Hours per day spent on smart phone</td>
<td>Smartwk, Smartwe</td>
</tr>
<tr>
<td></td>
<td>FOR ALL, Response options for each item were ‘none at all’, ‘about half an hour a day’, ‘about 1 hour a day’, ‘about 2 hours a day’, ‘about 3 hours a day’, ‘about 4 hours a day’, ‘about 5 hours a day’, ‘about 6 hours a day’ and ‘about 7 or more hours a day’. The total screen time was calculated by grouping the similar options of each item and by combining both weekends and weekdays. Subjects were then categorised into “≥7hrs/day”, “About 5-6 hours/day”, “About 3-4 hours/day”, “About 2 hrs/day” and “≤1hrs/day”.</td>
</tr>
</tbody>
</table>

Reading 17

<table>
<thead>
<tr>
<th>Definitions of reading derived as follows:</th>
<th>Reading hours (Weekend + weekdays)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours per day spent reading outside school hours</td>
<td>“About how many hours a day do you usually spend sitting down reading books, magazines or newspapers (including e-readers, online newspapers, and magazines) and studying when you are not at school?” The questions were asked for weekends and weekdays separately. The response options ranged from none to ≥ 7 hours per day</td>
</tr>
</tbody>
</table>

Bullying 18-19

<table>
<thead>
<tr>
<th>Frequency with which the behaviour occurred over the past couple of months:</th>
<th>Traditional bullying (physical+ verbal + relational)</th>
</tr>
</thead>
</table>
Bullying measure was meant to assess the extent to which they had recently experienced other children directing different types of bullying towards themselves. Six statements reflecting traditional bullying (physical, verbal, and relational) were asked. Questions were rated by participants using a 5-point response scale that ranged from 0=“I haven’t been bullied this way in the past couple of months” 1=“It has happened once or twice”, 2=“2 or 3 times a month”, 3=“2 or 3 times a week”, to 4=“Several times a week.”

(ii) Individual Items and scoring of Warwick-Edinburgh Mental Well-being scale (WEMWBS)

1. I’ve been feeling optimistic about the future
2. I’ve been feeling useful
3. I’ve been feeling relaxed
4. I’ve been feeling interested in other people
5. I’ve had energy to spare
6. I’ve been dealing with problems well
7. I’ve been thinking clearly
8. I’ve been feeling good about myself
9. I’ve been feeling close to other people
10. I’ve been feeling confident
11. I’ve been able to make up my own mind about things
12. I’ve been feeling loved
13. I’ve been interested in new things
14. I’ve been feeling cheerful

Each of the 14 item responses in WEMWBS are scored from 1 (none of the time), 2 (rarely), 3 (some of the time), 4 (often) to 5 (all of the time). A total scale score is calculated by summing the 14 individual item scores.
REFERENCES


