**Reasons to learn a language: ‘grey’ literature1, empirical evidence2 and relevance to British teenagers  
  
Main source:** Woll, B., & Wei, L. (2018). *Cognitive Benefits of Language Learning: Broadening our perspectives*. Final Report to the British Academy.

1 ‘Grey literature’, in grey font, includes reports, policy documents, and articles in the serious media/press, which are not reviewed for quality by other researchers (i.e., peer-reviewed);

2 ‘Empirical evidence’, in orange font, is from studies that have collected data and are peer-reviewed.

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|  | **Reasons**  **Learning a language…** | **Evidence available** | **Relevance**  (to UK 11-14 year old language learners) |
| Cross-curricular benefits | improves overall academic performance | Some empirical evidence, but context is dual language immersion education with speakers of other languages learning English.  Most stories relate to reading skills in US immersion education |  |
| improves first language literacy | Some empirical evidence, e.g., Murphy et al. (2015) found Spanish helped English literacy more than French;  but predominantly, research contexts are early dual language immersion, Most stories relate to reading skills in US immersion education |  |
| Neurological impairments | delays dementia / slows brain-ageing | Some evidence from bilinguals and also two studies among old adult foreign language learners. <http://www.medicalnewstoday.com/articles/315260.php?utm_source=TrendMD>&utm\_medium=cpc&utm\_campaign=Medical\_News\_Today\_TrendMD\_0   <http://www.telegraph.co.uk/news/health/news/10869619/Learning-a-second-language-in-adulthood-can-slow-brain-ageing.html> |  |
| recovery from stroke | Documents don’t specify if with bilinguals or second/foreign language learners. |  |
| The brain | makes your brain bigger | One document refers to language training programme, another to bilinguals having more ‘grey matter’ –they link to peer-reviewed research. |  |
| improves the way your brain works | These two stories relate to L2 learning, all ages, and are linked to peer-reviewed journal articles.  <http://news.psu.edu/story/334349/2014/11/12/research/learning-languages-workout-brains-both-young-and-old>   https://www.theguardian.com/education/2014/sep/04/what-happens-to-the-brain-language-learning |  |
| Cognitive benefits | improves attention and mental alertness | There is evidence that studying a new language improves attention and mental alertness after only a week of intensive study, an improvement which is maintained with practice. These cognitive improvements were found in all age groups (18-78 years), but were not found in a control group studying another subject intensively (Bak et al., 2016) Effects in this story about attention are for bilingual children in classrooms showing an enhanced ability to ignore extraneous noise and focus attention as well as enhanced mental agility. <https://www.sciencedaily.com/releases/2012/04/120430152033.htm>  <http://www.bbc.com/news/education-29599177> |  |
| positively enhances creativity | As well as research linking enhanced creativity with early bilingualism, a few studies suggest a potential relationship between second/foreign language learning and creativity. Analyses indicate a strong positive correlation between creative flexibility, fluency, originality and L2 learning (with strongest effects for creative flexibility). The reasons for these correlations are unclear (and so the relationship may not be directly ‘causal’). Cognitive benefits may be attributed to processes of language switching (as in bilingualism) or the rigorous practice and study involved in language learning. |  |
| cognitive flexibility / multi-tasking | Substantial body of work linking bilingualism with cognitive flexibility BUT not focused on second/foreign language learning, and other studies found counter-evidence suggesting no or little link. |  |
| memory | Stories relate to bilinguals. |  |
| problem-solving | Stories relate to bilinguals. |  |
| decision-making | Second language learning starting from junior or high school  and is linked to peer-reviewed journals <https://news.uchicago.edu/article/2012/04/25/thinking-foreign-language-helps-economic-decision-making> |  |
| metalinguistic awareness | This study claims an advantage from L2 learning at school, and cites peer-reviewed journals but focus is immersion education: <https://www.psychologytoday.com/blog/life-bilingual/201401/cognitive-advantages-second-language-immersion-education> |  |
| auditory perception | Stories relate to bilinguals. |  |
| executive function (controlling where attention is oriented and inhibiting stimuli) | There is substantial evidence about benefits to executive functioning of being bilingual, but a recent large-scale review (Lehtonen et al, 2018) did not find systematic support for these advantages. Also, the outcome measures used are not always obviously applicable to ‘real-world’ situations. Most stories concern bilingual babies or very young children. Those that relate to L2 school learning cite social media sources, not research. <https://newsinhealth.nih.gov/2012/06/bilingual-effects-brain>  <https://medicalxpress.com/news/2012-08-languages-benefits-low-income-children.html> |  |
| Social cognition | is related to empathy | The evidence suggests that empathy supports successful L2 learning (Guiora et al., 1972, Kleinmann, 1977, Mishan, 2005), BUT little empirical evidence to suggest that particular L2 learning approaches engender empathy which in turn would support L2 learning.  All stories relate to bilingual babies and young children. |  |
| enhances global identity | Research on the consequences on global outlook of language learning is negligible. Opinion piece (no references):  <http://www.telegraph.co.uk/education/educationopinion/11241713/Learning-languages-opens-up-new-horizons.html>  This article refers to peer-reviewed journals:  <https://www.theguardian.com/commentisfree/2015/apr/27/world-view-learn-another-language> |  |

References

Bak, T.H., Long, M.R., Vega-Mendoza, M., & Sorace, A. (2016). Novelty, challenge, and practice: the impact of intensive language learning on attentional functions, *PLoS One*, *11*, e0153485  
Guiora, A.Z., Brannon, R.C., & Dull, C.Y. (1972). Empathy and second language learning. *Language Learning*, *22*, 111–130  
Kleinmann, H.H. (1977). Avoidance behavior in adult second language acquisition. *Language Learning, 27*, 93–97  
Lehtonen, M., Soveri, A., Laine, A., Järvenpää, J., de Bruin, A., & Antfolk, J. (2018). Is bilingualism associated with enhanced executive functioning in adults? A meta-analytic review. *Psychological Bulletin*, *144,* 394–425   
Mishan, F. (2005). *Designing authenticity into language learning materials*. Intellect Books.

Murphy, V., Macaro, E., Alba, S., & Cipolla, C. (2015). The influence of learning a second language in primary school on developing first language literacy skills. *Applied Psycholinguistics, 36,* 1133–1153