



Introduction to psyquest

Deploying psychosocial and musicrelated questionnaires for data collection in R





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About psyquest

psyquest is an R package that contains a set of standard psychosocial and music-related questionnaires. psyquest is related to psychTestR, an R package for developing and administering behavioural experiments and for creating their interfaces (see the psychTestR website¹, the introduction² or Harrison, 2020, for further details). psyquest questionnaires are implemented as psychTestR modules within Shiny, a web development framework. Like a library of certain psychTestR modules, psyquest in turn provides questionnaires to fill these interfaces.

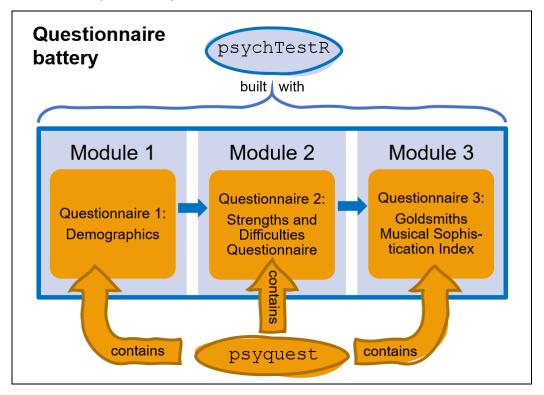


Figure 1. Schematic structure of an example questionnaire battery built with psychTestR (blue) filled with questionnaires of the psyquest library (orange).

Consequently, psyquest can be applied effectively in both laboratory settings and large-scale online surveys³ (Harrison, 2020). This introduction assumes that the reader is already moderately familiar with the programming language R.

¹ https://pmcharrison.github.io/psychTestR/index.html

² https://pmcharrison.github.io/psychTestR/articles/b-introduction

³ This document describes the use on a local computer. For setting up a server running psyquest, refer to Anthony Chmiel's Guide to creating a server for online R experiments using psychTestR.





The package was developed by the LongGold team for investigating the development of musicality in children and adolescents (see longgold.org for further information). All questionnaires included in psyquest, as well as performance and listening tests used in the LongGold project, are provided at https://shiny.goldmsi.org/longgold_demo/. English and German versions of the questionnaires are included4. Table 1 shows the questionnaires supplied by psyquest. They cover a range of self-reports on psychosocial factors, musical factors and other activities relevant to the musical developmental research: Besides the collection of data on basic demographic variables (DEG) and socio-economic status (SES), it is possible to quantify drama- (DAC) and sports-related activities (PAC) as well as musical activity (i) at home (including parental support for it; MHE), (ii) in general, and (iii) at and after school (CCM, MHE). To assess general musicality, psyquest provides the Goldsmiths Musical Sophistication Index (Müllensiefen et al., 2014; GMS). Attitudes towards (i) musicality (TOM), (ii) intelligence (TOI), and (iii) towards a participant's school engagement (SEM) can be evaluated. Furthermore, with psyquest, behavioural difficulties and strengths (SDQ), certain personality traits (TPI), the handling of goals (GRT, HOP), and the motivation during testing (SOS) can be assessed.

The questionnaires employed in the *LongGold* research are targeted at children and adolescents. Therefore, most questionnaires have been adapted to this specific group (see Table 1). Nonetheless, most of them can also be used for an adult target group. We recommend considering the exact wording of the items and checking if they are suitable for an adult audience prior to any official use.

Installation

If you don't have R installed yet, download⁵ and install it first. To install psyquest, the package devtools and an integrated development environment for R (e.g.

⁴ in line with the internationalisation paradigm of psychTestR, whereby experiments are implemented with reference to a multilingual dictionary, see https://pmcharrison.github.io/psychTestR/articles/b-introduction#internationalisation-1.

⁵ https://cloud.r-project.org/





RStudio⁶) are required. Make sure the R user packages on your system are up to date. Use the command devtools::install github('fmhoeger/psyquest') within the R console to download and install the files needed.

If some packages have more recent versions available, you will be asked which of them you want to update. Press "1" to update all (recommended) or "3" to update none of them. During this process, you might have to install from sources packages which need compilation: If the message: "Do you want to install from sources the packages which need compilation?" appears, click "Yes". If the installation failed because prior installation of any specific package couldn't be removed, try to install theses packages separately.

The message * DONE (psyquest) in the console indicates that the installation was After loading the psyquest package with the command library (psyquest), psyquest is ready for use.

devtools::install github('fmhoeger/psyquest') library(psyquest)

⁶ https://rstudio.com/





Usage

Single questionnaire

The questionnaires are implemented as functions with several arguments to specify some of their properties:

XYZ standalone(): To run a particular questionnaire use the command

XYZ standalone(), replacing XYZ with its respective

three-letter acronym (see Table 1; e.g.

GMS standalone()). The questionnaire opens in an

inbuilt browser window and begins with a page to enter a

participant's ID. Before this, arguments can be specified

within the parentheses of the command.

admin password: It is recommended to set a password via

XYZ standalone(admin password = "your-

password") to access the admin panel of psychTestR

where, among other things, the results can be downloaded

(see section "Example" or "Admin panel" of the introductory

article on the psychTestR website for further details)

languages: The argument languages = "de" starts the German

version of a questionnaire, while "en", which is the default,

starts the English one.

researcher email: The argument researcher email displays a contact

email address for problems at the bottom of the

questionnaires.

subscales: As can be seen in Table 1, some of the questionnaires have

subscales (e.g. the Strengths and Difficulties Questionnaire,

or SDQ for short). Subscales to be included in the

questionnaire can be specified in the character vector of the

subscales **argument**, **e.g.**

⁷ https://pmcharrison.github.io/psychTestR/articles/b-introduction

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```
SDQ_standalone(subscales = c("Prosocial",
"Hyperactivity", "Emotional problems"))
```

You can find the exact spelling of the values for the subscales argument and other general information about each questionnaire by entering ? XYZ_standalone into the console. Note that the subscales of certain questionnaires (e.g. GMS General and Singing Abilities) have a few items in common.

short version:

Besides the subscales, GMS has a short version comprising 29 items (instead of 41) which can be accessed with short_version = TRUE. This setting is overridden by the subscales argument, i.e. combining subscales and short_verion results in a questionnaire consisting of subscales still in their original, normal length. However, if you want to include short versions of the subscales, you can use the so called *GMSI Configurator* (see section "GMSI Configurator") to customize a GMS self-report inventory by specifying a certain number of items and the language version.

Battery of several questionnaires

To bundle several questionnaires together the <code>battery()</code> function can be used. As in the case of a single questionnaire, the arguments <code>admin_password</code>, <code>languages</code>, and <code>researcher email</code> and the following arguments can be used:

title:

The argument title exchanges the headline of the questionnaires with the given character vector (e.g. title = "LongGold Survey 2020").

questionnaires:

Questionnaires to be included in the battery have to be specified in the argument questionnaires with their three-letter acronym followed by parentheses, e.g.

battery(questionnaires = c(DEG(),GMS()))





subscales &
short_version:

The arguments subscales and short_version can be defined within the parentheses of single questionnaires (see section "Example").

Downloading the results and admin panel

The results of completed questionnaires of a battery of questionnaires can be found in the *.RDS files saved in the directory of the R project or the default directory within the folder output/results⁸. All results or only the result of the current session can also be downloaded as a comma-separated values file (*.csv) or a single R object (*.RDS) via the admin panel. Both the *.csv and the *.RDS files contain all answers given by the participant as well as the subscale scores calculated from them. To login to the admin panel, click the "Admin login"-button at the bottom and enter the specified password. Each *.RDS file represents a participant session and can be opened with RStudio by loading it into a new R object. The different components are shown in the data viewer on the top left (as shown in Figure 3).

For more information about the interface to the "back end" of the testing environment, which is provided in the admin panel (an interface to the "back end" of the testing environment (piloting, availability, statistics), can be found at https://pmcharrison.github.io/psychTestR/articles/b-introduction#admin-panel-1.

GMSI Configurator

Visit https://shiny.gold-msi.org/gmsiconfigurator/ to choose a certain number of items which you want to include in a shorter version of the GMS questionnaire: Click on the tab "Configure" to set the number of items of each subscale to be included. Additionally, you can select the language of the items (English, German, and Traditional Chinese¹⁰). Click on the download button to download a *.csv file including the selected items. Include these items into your questionnaire via the configuration_filepath argument (see Example 3 in the next section). NB. This argument overrides the short version and subscales arguments.

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⁸ for Windows, output/results for MAC and Linux

¹⁰ more languages coming soon





Table 1 Questionnaires included in psyquest

Questionnaire	Acronym	Measured	Target group	Subscales	Value range	Source
		construct(s) or		(number of Items)		
		variable(s)				
		[total number of				
		items]				
Concurrent	CCM	Type and intensity of	Children &	General (3), Extra (2)	General:	Müllensiefen
Musical		current musical	adolescents		[-2.55, 8.71],	et al., 2015
Activities		activities, number of			Extra: [1, 5]	
		music lessons [5]				
Drama Activity	DAC	Quantitative	Children &	-	[1, 5]	Modelled
		investigation of drama	adolescents			after: Kent C.
		activity (i.e. theatre,				Kowal-ski et
		improvisation, and role				al., 1997; K.
		play) [4]				C. Kowalski
						et al., 2004
Demographics	DEG	Hearing impairment,	Children,	-	-	-
		gender, age,	adolescents, &			
		nationality, languages,	adults			
		and handedness [12]				





Questionnaire	Acronym	Measured	Target group	Subscales	Value range	Source
		construct(s) or		(number of Items)		
		variable(s)				
		[total number of				
		items]				
Goldsmiths	GMS	Musical sophistication	Children,	General (18), Active	[1, 7]	Müllensiefen
Musical		(musical abilities, skills,	adolescents, &	Engagement (9),		et al., 2014
Sophistication		and music-related	adults	Emotions (6), Musical		
Index		behaviour) [41/short		Training (7),		
		version: 29]		Perceptual Abilities		
				(9), Singing Abilities		
				(7), Start Age (1),		
				Instrument (1),		
				Absolute Pitch (1)		
Short Grit	GRT	Trait-level	Children,	-	[1, 5]	Duckworth &
Scale		perseverance and	adolescents, &			Quinn, 2009
		passion for long-term	adults			
		goals [8]				





Questionnaire	Acronym	Measured	Target group	Subscales	Value range	Source
		construct(s) or		(number of Items)		
		variable(s)				
		[total number of				
		items]				
Children's	HOP	Hope reflecting the	Children &	-	[1, 5]	Snyder et al.,
Hope Scale		combination of agentic	adolescents			1997
		and pathways thinking				
		towards goals [6]				
Musical Home	MHE	Degree of musical	Children &	-	[-3.23, 4.04]	Müllensiefen
Environment		activities within the	adolescents			et al., 2015
		home environment,				
		parental support for				
		musical and school				
		activities [9]				
Physical	PAC	Amount of sporting and	Children &	-	[1, 5]	Kent C.
Activity		physical activities [5]	adolescents			Kowalski et
						al., 1997; K.
						C. Ko-walski
						et al., 2004





Questionnaire	Acronym	Measured construct(s) or variable(s) [total number of items]	Target group	Subscales (number of Items)	Value range	Source
Strengths and	SDQ	Behavioural difficulties	Children &	Prosocial (5),	[0, 2]	Goodman et
Difficulties		and strengths [25]	adolescents	Hyperactivity (5),		al., 1998
Questionnaire				Emotional problems		
(mental health)				(5), Conduct problems		
				(5), Peer problems (5),		
				Externalising (10),		
				Internalising (10),		
				Difficulties (20)		





Questionnaire	Acronym	Measured construct(s) or	Target group	Subscales (number of Items)	Value range	Source
		variable(s)				
		[total number of				
		items]				
School	SEM	Commitment and	Children &	Attentiveness (3),	[1, 5]	Wang et al.,
Engagement		attitudes of pupils	adolescents	School Compliance		2011
Measurement		towards their school		(4), Valuing of School		
		[23]		Education (5), Self-		
				regulated Learning(4),		
				Cognitive Strategy		
				Use (4), Behavioral		
				Engagement (7),		
				Emotional		
				Engagement (8),		
				Cognitive		
				Engagement (8),		
				School belonging (3)		





Questionnaire	Acronym	Measured	Target group	Subscales	Value range	Source
		construct(s) or		(number of Items)		
		variable(s)				
		[total number of				
		items]				
Socio-	SES	Educational level of the	Children &	Educational Degree	Educational	Rose, 2005;
economic		parents, professional	adolescents	(2), ESeC (2-3)	Degree: [1,	Rose &
Status		activity of the main			6], ESeC [1,	Pevalin, 2001
		income earner [5]			5]	
Student	SOS	Motivation concerning	Children,	Importance (5), Effort	[1, 5]	Sundre &
Opinion Scale		the answering of	adolescents, &	(5)		Moore, 2002
		questionnaires and	adults			
		tests [10]				
Theory of	TOI	Attitudes regarding	Children,	Goals Choice (4),	Goals	Dweck, 2000
Intelligence		intelligence as	adolescents, &	Theory of Inteligence	Choice:	
		something static and	adults	(3)	[1.75, 5.25],	
		unchangeable (entity			Theory of	
		view) or as something			Inteligence:	
		fluid and changeable			[1, 6]	
		(incremental view) [7]				





Questionnaire	Acronym	Measured	Target group	Subscales	Value range	Source
		construct(s) or		(number of Items)		
		variable(s)				
		[total number of				
		items]				
Theory of	TOM	Attitudes about musical	Children,	Entity (6), Gift (3),	[1, 5]	Modelled
Musicality		abilities (acquired or	adolescents, &	Improvement (3),		after: Biddle
		innate) [12]	adults	Incremental (6),		et al., 2003
				Learning (3), Stable		
				(3)		
Ten Item	TPI	Personality on the big	Children,	Extraversion (2),	[1, 7]	Gosling et al.,
Personality		five personality	adolescents, &	Agreeableness (2),		2003
Inventory		dimensions [10]	adults	Conscientiousness		
				(2), Emotional Stability		
				(2), Openness to		
				Experiences (2)		





Example: How to create your first survey and access the results

Example 1: Battery of several questionnaires

Imagine, in a survey called "Music and Personality 2021", you would like to investigate whether people who spend a lot of time engaging in music and consider themselves a good singer are more likely to be sociable, curious, lively, and open. Subsequently, you can use the following code to start a questionnaire including questions about demographics (DEG), prosocial behaviour (SDQ's subscale *Prosocial*), active musical engagement (GMS's subscale *Active Engagement*), singing abilities (GMS's subscale *Singing Abilities*), and extraversion and openness to experiences (TPI's subscales *Extraversion* and *Openness to Experiences*). The language is set to German and "hello@gmail.com" should be contacted in case of problems.

```
if(!require(psyquest)) {
    devtools::install_github("fmhoeger/psyquest");
    library(psyquest)
}else{
    library(psyquest)
}

battery(
    questionnaires = c(DEG(),
        SDQ(subscales = c("Prosocial")),
        GMS(subscales = c("Active Engagement", "Singing Abilities")),
        TPI(subscales = c("Extraversion", "Openness to Experiences"))),
        title = "Music and Personality 2021", languages = "de",
        researcher_email = "hello@gmail.com", admin_password = "abcde")
```

Entering this code into the console of e.g. *RStudio* will open a window in which the questionnaire starts by prompting participants to enter their ID (see Figure 2).





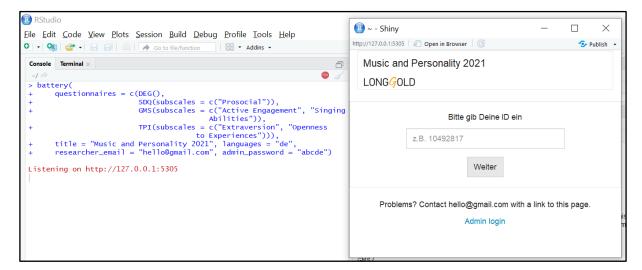


Figure 2 Start page

Example 2: Including GMSI Configurator file

Normally, the GMS subscales *Active Engagement* and *Singing Abilities* consist of nine and seven items, respectively. If you need shorter versions, you can use the GMSI Configurator¹¹ to create a list containing a reduced number of items, e.g. with five items about active musical engagement and singing abilities, respectively. Suppose you saved it in e.g. *GMSI_items.csv* in *C:/Users/user/Documents*. Subsequently, you can use the following code to start a questionnaire including questions about demographics (DEG), prosocial behaviour (SDQ's subscale *Prosocial*), five items concerning active musical engagement (GMS's subscale *Active Engagement*), five items about singing abilities (GMS's subscale *Singing Abilities*), and items measuring a participant's extraversion and openness to experiences (TPI's subscales *Extraversion* and *Openness to Experiences*). The language is set to German and "hello@gmail.com" should be contacted in case of problems.

Entering the following code into the console of e.g. *RStudio* (Make sure to replace "user" with your username within the file path!) will open a window in which the questionnaire starts by prompting participants to enter their ID.

¹¹ https://shiny.gold-msi.org/gmsiconfigurator/





```
if(!require(psyquest)) {
    devtools::install_github("fmhoeger/psyquest");
    library(psyquest)
}else{
    library(psyquest)
}

battery(
    questionnaires = c(DEG(),
        SDQ(subscales = c("Prosocial")),
        GMS(configuration_filepath = "/Users/user/Documents/GMSI_items.csv"),
        TPI(subscales = c("Extraversion", "Openness to Experiences"))),
    title = "Music and Personality 2021", languages = "de",
    researcher email = "hello@gmail.com", admin password = "abcde")
```

Example 3: Retrieving the results

After completing all questions, find the results in an *.RDS file at folder output/results¹² or click the "Admin login"-button at the bottom and enter the password "abcde". Click "All (CSV)" to download the results of all sessions and open them e.g. in *Excel*. Click "All (RDS)" to download a folder with all results of all sessions. In this folder, there are *.RDS files, each file representing a participant session. They are called e.g. "id=1&p_id=123456&save_id=2&pilot=false&complete=true". Open it with *RStudio* by loading it into a new R object called e.g. results_p_id=123456. Enter View(`results_p_id=123456`) into the R console, so the different components of results_p_id=123456 are shown in the data viewer on the top left (as shown in Figure 3). Click the blue button next to TPI to view the given answers, e.g. in the second line, q5 and 'btn4_text' mean that the participant chose button 4 in question 5 of the total TPI scale inventory. q1, q5, q6, and q10 represent the two chosen subscales. The total scores for variables *Extraversion* and *Openness to Experiences* is viewed below (1.5 and 4, respectively, green box).

¹² for Windows, output/results for MAC and Linux





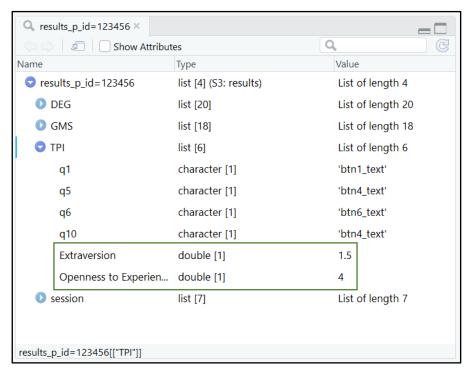


Figure 3. Data viewer





Benchmark data

Most of the questionnaires included in psyquest have already been used in the LongGold project. To generate benchmark values from the project's data, the total sample was split into groups of the same age and gender. Participants who had been tested in two or more test waves, and therefore would have been listed in multiple groups, were removed from all groups except the one in which they had their highest age. For all groups with at least 50 participants who completed a questionnaire, mean scores (M) and standard deviations (SD) for that questionnaire were calculated. Table 2 shows these values, the sample size of the group for each questionnaire, and the gender x age group combination meeting the above condition. With these values, users of the questionnaires included in psyquest can transform the scores x_i of their participants into standardized scores (i.e. z-scores using the formula $z = \frac{x_i - M}{SD}$ or IQ-like scores). To access these benchmarks via R as a data frame enter benchmarks into the R console.





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Appendix

Table 2 Benchmark values from the *LongGold* project

Scale	Subscale	Gender	Age	М	SD	N
CCM	General	female	10	0.811	1.96	295
			11	0.550	2.16	443
			12	0.746	2.19	519
			13	0.570	2.14	252
			14	0.165	2.42	262
			15	-0.264	2.38	141
			16	-0.155	2.42	179
			17	-0.420	2.09	184
		male	10	0.133	1.98	265
			11	0.0508	2.05	375
			12	-0.00141	2.21	334
			13	-0.245	2.22	157
			14	-0.831	2.13	183
			15	-1.09	1.97	59
CCM	Extra:	female	10	2.81	1.00	294
	weekly number of school music lessons		11	2.77	1.06	440
			12	2.82	1.19	500
			13	2.72	1.24	212
			14	2.34	1.31	190
			15	1.78	1.27	114
			16	1.81	1.32	122
			17	1.60	1.15	83
		male	10	2.87	1.03	265
			11	2.86	1.04	375
			12	2.63	1.18	326
			13	2.72	1.12	137
			14	1.57	1.07	83
			15	1.57	1.23	58
ССМ	Extra:	female	10	1.65	1.08	294
	weekly number of after school music lessons		11	1.56	1.03	440
			12	1.66	1.11	500
			13	1.73	1.09	212





Scale	Subscale	Gender	Age	М	SD	N
			14	1.81	1.26	190
			15	1.54	1.03	114
			16	1.65	1.15	122
			17	1.51	1.11	83
		male	10	1.53	1.06	265
			11	1.44	0.973	375
			12	1.52	1.01	326
			13	1.60	1.17	137
			14	1.30	0.777	83
			15	1.52	1.14	58
DAC		female	10	1.41	0.653	222
			11	1.44	0.674	348
			12	1.54	0.777	444
			13	1.49	0.767	210
			14	1.56	0.819	226
			15	1.41	0.648	133
			16	1.48	0.779	156
			17	1.30	0.647	158
		male	10	1.20	0.474	225
			11	1.24	0.570	327
			12	1.22	0.521	291
			13	1.49	0.891	140
			14	1.38	0.808	170
GMS	General	female	10	3.99	0.856	254
			11	3.90	0.855	405
			12	3.95	0.877	486
			13	3.82	0.843	239
			14	3.73	1.00	248
			15	3.80	0.911	137
			16	3.96	1.01	175
			17	3.82	0.996	185
		male	10	3.55	0.921	240
			11	3.53	0.867	354
			12	3.55	0.896	317
			13	3.53	0.958	154
			14	3.45	0.994	174
		•				





Scale	Subscale	Gender	Age	М	SD	N
			15	3.66	0.883	55
GMS	Active Engagement	female	10	3.80	0.977	254
			11	3.91	1.01	405
			12	3.97	0.931	486
			13	3.82	0.975	239
			14	3.72	1.01	248
			15	3.95	1.13	137
			16	3.99	1.01	175
			17	3.85	1.00	185
		male	10	3.46	0.975	240
			11	3.44	0.967	354
			12	3.46	0.982	317
			13	3.41	0.997	154
			14	3.33	1.03	174
			15	3.91	1.04	55
GMS	Emotions	female	10	4.39	0.954	254
			11	4.47	0.954	405
			12	4.63	0.890	486
			13	4.64	0.952	239
			14	4.79	0.995	248
			15	4.89	1.04	137
			16	5.04	0.890	175
			17	4.90	0.965	185
		male	10	4.06	1.04	240
			11	4.07	1.01	354
			12	4.15	1.06	317
			13	4.20	1.12	154
			14	4.33	1.02	174
			15	4.82	1.00	55
GMS	Musical Training	female	10	3.43	1.11	254
			11	3.37	1.09	405
			12	3.46	1.16	486
			13	3.31	1.10	239
			14	3.21	1.25	248
			15	3.23	1.16	137
			16	3.42	1.28	175





Scale	Subscale	Gender	Age	М	SD	N
-			17	3.23	1.35	185
		male	10	3.06	1.15	240
			11	3.00	1.12	354
			12	3.06	1.24	317
			13	3.06	1.17	154
			14	2.98	1.34	174
			15	2.92	1.34	55
GMS	Perceptual Abilities	female	10	4.60	0.942	254
			11	4.53	0.969	405
			12	4.61	0.915	486
			13	4.63	0.841	239
			14	4.63	0.906	248
			15	4.60	0.888	137
			16	4.77	0.978	175
			17	4.61	0.941	185
		male	10	4.36	1.00	240
			11	4.39	0.953	354
			12	4.35	1.02	317
			13	4.31	1.04	154
			14	4.50	0.975	174
			15	4.72	0.974	55
GMS	Singing Abilities	female	10	4.50	1.09	254
			11	4.34	1.11	405
			12	4.34	1.09	486
			13	4.24	1.05	239
			14	4.23	1.17	248
			15	4.18	1.02	137
			16	4.31	1.19	175
			17	4.24	1.07	185
		male	10	3.90	1.11	240
			11	3.99	1.13	354
			12	4.01	1.13	317
			13	3.92	1.17	154
			14	3.86	1.16	174
			15	4.36	0.958	55
MHE		female	10	0.788	1.88	270





11	Scale	Subscale	Gender	Age	М	SD	N
13				11	0.422	1.91	424
PAC Female 14 -0.257 1.74 196 1.53 113 114 -0.689 1.52 119 114 -0.689 1.52 119 114 -0.689 1.52 119 114 -0.689 1.52 119 114 -0.689 1.52 119 114 -0.690 1.58 1.66 12 -0.195 1.81 316 124 -0.690 1.58 120 155 -0.578 1.66 56 12 -0.578 1.66 56 12 -0.578 1.66 56 12 -0.578 1.66 56 114 -0.690 1.58 120 114 3.28 0.887 341 3.25 0.881 209 3.25 0.881 209 3.25 0.881 209 3.25 0.881 209 3.25 0.881 209 3.25 0.881 209 3.25 3.25 0.881 209 3.25 3.				12	0.357	1.83	487
PAC Female 15 -0.490 1.53 113 126 126 126 126 127				13	0.172	1.73	217
Male				14	-0.257	1.74	196
PAC Female 17 -0.689 1.52 119 110 110 1.20 1.81 366 1.62 1.81 366 1.62 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 1.81 316 316 316 316 316 316 316 316 316 316 318 317 318				15	-0.490	1.53	113
PAC female 10 0.208 1.94 256 PAC 11 0.0315 1.81 366 PAC female 10 -0.518 1.66 144 14 -0.690 1.58 120 15 -0.578 1.66 56 PAC female 10 3.24 0.818 217 11 3.28 0.887 341 12 3.30 0.899 440 3.31 0.989 440 3.31 0.969 222 13 3.25 0.881 209 133 0.989 240 13 3.25 0.881 209 120 156 3.02 1.090 133 130 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 156 15 3.31 0.989 140 13 3.47 1.000 138 14 3.43 0.989 140 13 3.47 1.000 138 10				16	-0.363	1.79	127
PAC female 10 0.0315 1.81 366 12 -0.195 1.81 316 144 -0.690 1.58 120 15 -0.578 1.66 56 56 56 56 56 56 56				17	-0.689	1.52	119
PAC female 10 3.24 0.818 217 PAC female 10 3.24 0.818 217 11 3.28 0.887 341 12 3.30 0.899 440 13 3.25 0.881 209 14 3.31 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 male 10 3.32 0.919 221 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170 SDQ Conduct Problems female 10 0.418 0.317 199 SDQ Conduct Problems female 10 0.418 0.317 199 SDQ Conduct Problems female 10 0.418 0.317 199 11 0.498 0.335 317 12 0.473 0.349 428 13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196			male	10	0.208	1.94	256
PAC female 10 3.24 0.818 217 PAC female 10 3.24 0.818 217 11 3.28 0.887 341 12 3.30 0.899 440 13 3.25 0.881 209 14 3.31 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 male 10 3.32 0.919 221 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170 SDQ Conduct Problems female 10 0.418 0.317 199 SDQ Conduct Problems female 10 0.418 0.317 199 SDQ Conduct Problems female 10 0.418 0.317 199 11 0.498 0.335 317 12 0.473 0.349 428 13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				11	0.0315	1.81	366
PAC female 10				12	-0.195	1.81	316
PAC female 10				13	-0.518	1.66	144
PAC female 10 3.24 0.818 217 11 3.28 0.887 341 12 3.30 0.899 440 13 3.25 0.881 209 14 3.31 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 17 3.03 3.120 158 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170 1				14	-0.690	1.58	120
11 3.28 0.887 341 12 3.30 0.899 440 13 3.25 0.881 209 144 3.31 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170 170 185 11 0.498 0.335 317 120 0.418 0.317 199 130 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 18 18 196 10 0.513 0.37 198 178 178 18 18 18 18 18				15	-0.578	1.66	56
12 3.30 0.899 440 13 3.25 0.881 209 144 3.31 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170 1	PAC		female	10	3.24	0.818	217
13 3.25 0.881 209 14 3.31 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 17 3.03 1.120 158 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 17				11	3.28	0.887	341
14 3.31 0.969 222 15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170				12	3.30	0.899	440
15 3.02 1.090 133 16 2.90 1.020 156 17 3.03 1.120 158 17 3.03 1.120 158 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170				13	3.25	0.881	209
16				14	3.31	0.969	222
Male				15	3.02	1.090	133
male 10 3.32 0.919 221 11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170 SDQ Conduct Problems female 10 0.418 0.317 199 11 0.498 0.335 317 12 0.473 0.349 428 13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				16	2.90	1.020	156
11 3.30 0.997 319 12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170 14 3.42 0.980 170 15 170 1				17	3.03	1.120	158
12 3.31 0.985 286 13 3.47 1.000 138 14 3.42 0.980 170			male	10	3.32	0.919	221
13 3.47 1.000 138 14 3.42 0.980 170				11	3.30	0.997	319
SDQ Conduct Problems female 10 0.418 0.317 199 11 0.498 0.335 317 12 0.473 0.349 428 13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				12	3.31	0.985	286
SDQ Conduct Problems female 10 0.418 0.317 199 11 0.498 0.335 317 12 0.473 0.349 428 13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				13	3.47	1.000	138
11 0.498 0.335 317 12 0.473 0.349 428 13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				14	3.42	0.980	170
12 0.473 0.349 428 13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196	SDQ	Conduct Problems	female	10	0.418	0.317	199
13 0.495 0.376 202 14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				11	0.498	0.335	317
14 0.480 0.379 216 15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				12	0.473	0.349	428
15 0.534 0.397 133 16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				13	0.495	0.376	202
16 0.436 0.309 156 17 0.446 0.344 158 male 10 0.513 0.37 196				14	0.480	0.379	216
17 0.446 0.344 158 male 10 0.513 0.37 196				15	0.534	0.397	133
male 10 0.513 0.37 196				16	0.436	0.309	156
				17	0.446	0.344	158
11 0.569 0.365 301			male	10	0.513	0.37	196
				11	0.569	0.365	301





Scale	Subscale	Gender	Age	М	SD	N
			12	0.552	0.403	281
			13	0.588	0.362	133
			14	0.544	0.352	169
SDQ	Difficulties	female	10	0.583	0.259	199
			11	0.668	0.272	317
			12	0.648	0.295	428
			13	0.668	0.299	202
			14	0.657	0.296	216
			15	0.672	0.353	133
			16	0.563	0.314	156
			17	0.539	0.324	158
		male	10	0.611	0.292	196
			11	0.643	0.292	301
			12	0.629	0.291	281
			13	0.634	0.285	133
			14	0.686	0.306	169
SDQ	Emotional Problems	female	10	0.651	0.447	199
			11	0.775	0.483	317
			12	0.825	0.472	428
			13	0.833	0.459	202
			14	0.902	0.463	216
			15	1.03	0.524	133
			16	0.855	0.423	156
			17	0.848	0.481	158
		male	10	0.565	0.460	196
			11	0.601	0.445	301
			12	0.623	0.449	281
			13	0.635	0.465	133
			14	0.712	0.481	169
SDQ	Externalising	female	10	0.608	0.314	199
			11	0.694	0.319	317
			12	0.693	0.346	428
			13	0.742	0.360	202
			14	0.714	0.358	216
			15	0.769	0.373	133
			16	0.696	0.342	156





Scale	Subscale	Gender	Age	М	SD	N
			17	0.675	0.347	158
		male	10	0.678	0.338	196
			11	0.718	0.329	301
			12	0.716	0.366	281
			13	0.764	0.357	133
			14	0.777	0.362	169
SDQ	Hyperactivity	female	10	0.798	0.427	199
			11	0.890	0.429	317
			12	0.916	0.465	428
			13	0.989	0.454	202
			14	0.951	0.487	216
			15	1.03	0.483	133
			16	0.972	0.516	156
			17	0.929	0.471	158
		male	10	0.843	0.427	196
			11	0.868	0.403	301
			12	0.880	0.457	281
			13	0.941	0.485	133
			14	1.01	0.500	169
SDQ	Internalising	female	10	0.563	0.302	199
			11	0.642	0.339	317
			12	0.634	0.346	428
			13	0.628	0.321	202
			14	0.646	0.339	216
			15	0.752	0.346	133
			16	0.640	0.312	156
			17	0.637	0.348	158
		male	10	0.544	0.336	196
			11	0.568	0.350	301
			12	0.563	0.349	281
			13	0.554	0.350	133
			14	0.595	0.373	169
SDQ	Peer Problems	female	10	0.474	0.300	199
			11	0.508	0.351	317
			12	0.441	0.368	428
			13	0.424	0.332	202





Scale	Subscale	Gender	Age	М	SD	N
			14	0.389	0.349	216
			15	0.465	0.343	133
			16	0.422	0.360	156
			17	0.418	0.347	158
		male	10	0.523	0.351	196
			11	0.534	0.376	301
			12	0.502	0.373	281
			13	0.474	0.402	133
			14	0.477	0.414	169
SDQ	Prosocial	female	10	1.64	0.345	199
			11	1.60	0.354	317
			12	1.61	0.337	428
			13	1.54	0.395	202
			14	1.51	0.408	216
			15	1.51	0.342	133
			16	1.48	0.385	156
			17	1.59	0.366	158
		male	10	1.41	0.440	196
			11	1.45	0.414	301
			12	1.46	0.420	281
			13	1.39	0.398	133
			14	1.41	0.495	169
SEM	Attentiveness	female	10	4.13	0.806	160
			11	3.87	0.888	254
			12	3.75	0.918	371
			13	3.53	1.02	176
			14	3.35	0.880	189
			15	3.35	0.924	131
			16	3.35	0.989	151
			17	3.36	0.907	157
		male	10	3.99	0.896	163
			11	3.88	0.901	256
			12	3.72	0.865	246
			13	3.47	0.909	121
			14	3.38	0.925	167
SEM	Behavioural Engagement	female	10	4.51	0.469	160





Scale	Subscale	Gender	Age	М	SD	N
			11	4.32	0.600	254
			12	4.29	0.591	371
			13	4.13	0.682	176
			14	4.04	0.637	189
			15	4.05	0.632	131
			16	4.08	0.657	151
			17	4.12	0.552	157
		male	10	4.28	0.739	163
			11	4.19	0.673	256
			12	4.07	0.715	246
			13	3.88	0.704	121
			14	3.81	0.771	167
SEM	Cognitive Engagement	female	10	3.64	0.78	160
			11	3.60	0.754	254
			12	3.52	0.719	371
			13	3.45	0.710	176
			14	3.39	0.743	189
			15	3.30	0.764	131
			16	3.45	0.730	151
			17	3.52	0.616	157
		male	10	3.67	0.832	163
			11	3.65	0.788	256
			12	3.49	0.897	246
			13	3.38	0.778	121
			14	3.33	0.678	167
SEM	Cognitive Strategy Use	female	10	3.52	0.943	160
			11	3.42	0.907	254
			12	3.39	0.840	371
			13	3.26	0.844	176
			14	3.22	0.891	189
			15	3.11	0.904	131
			16	3.30	0.839	151
			17	3.36	0.784	157
		male	10	3.51	1.01	163
			11	3.55	0.949	256
		_	12	3.34	1.06	246





Scale	Subscale	Gender	Age	М	SD	N
_			13	3.14	0.924	121
			14	3.11	0.795	167
SEM	emotional engagement	female	10	4.05	0.688	160
			11	3.92	0.663	254
			12	3.83	0.675	371
			13	3.65	0.663	176
			14	3.69	0.670	189
			15	3.43	0.669	131
			16	3.66	0.746	151
			17	3.74	0.647	157
		male	10	4.08	0.720	163
			11	3.95	0.700	256
			12	3.83	0.725	246
			13	3.71	0.815	121
			14	3.77	0.747	167
SEM	School Belonging	female	10	4.20	1.04	160
			11	4.02	0.988	254
			12	3.86	1.07	371
			13	3.53	1.12	176
			14	3.45	1.08	189
			15	3.13	1.06	131
			16	3.44	1.07	151
			17	3.58	1.08	157
		male	10	4.11	1.13	163
			11	4.00	1.14	256
			12	3.88	1.18	246
			13	3.66	1.19	121
			14	3.69	1.12	167
SEM	School Compliance	female	10	4.80	0.415	160
			11	4.67	0.598	254
			12	4.70	0.554	371
			13	4.59	0.675	176
			14	4.55	0.669	189
			15	4.57	0.640	131
			16	4.63	0.632	151
			17	4.68	0.492	157





Scale	Subscale	Gender	Age	М	SD	N
		male	10	4.50	0.850	163
			11	4.43	0.789	256
			12	4.33	0.815	246
			13	4.19	0.829	121
			14	4.14	0.860	167
SEM	Self-regulated Learning	female	10	3.76	0.902	160
			11	3.79	0.837	254
			12	3.64	0.791	371
			13	3.64	0.774	176
			14	3.57	0.816	189
			15	3.48	0.842	131
			16	3.61	0.828	151
			17	3.68	0.721	157
		male	10	3.82	0.873	163
			11	3.75	0.870	256
			12	3.64	0.933	246
			13	3.61	0.832	121
			14	3.54	0.765	167
SEM	Valuing of School Education	female	10	3.97	0.698	160
			11	3.86	0.716	254
			12	3.82	0.662	371
			13	3.73	0.638	176
			14	3.83	0.697	189
			15	3.61	0.723	131
			16	3.79	0.747	151
			17	3.84	0.600	157
		male	10	4.06	0.693	163
			11	3.91	0.698	256
			12	3.80	0.720	246
			13	3.75	0.811	121
			14	3.82	0.746	167
SES	Educational Degree	female	12	5.99	1.06	51
			14	6.08	1.07	64
			17	5.58	1.12	71
		male	14	5.72	1.25	95
SOS	Effort	female	14	3.55	0.553	55





SOS Importance female 14 TOM Entity female 10 11 11 11	3.56 3.27 3.13 2.44 2.43 2.47 2.57	0.599 0.616 0.704 0.702 0.665	98 55 98 290
TOM Entity female 10	3.13 2.44 2.43 2.47	0.704	98 290
TOM Entity female 10	2.44 2.43 2.47	0.702	290
	2.43 2.47		
11	2.47	0.665	
			437
12	2.57	0.678	509
13		0.698	240
14	2.62	0.663	251
15	2.74	0.644	140
16	2.64	0.724	157
17	2.67	0.694	158
male 10	2.56	0.699	264
11	2.58	0.732	374
12	2.54	0.731	331
13	2.55	0.747	157
14	2.67	0.746	178
15	2.51	0.660	59
TOM Gift female 10	2.34	0.858	290
11	2.37	0.746 0.660 0.858 0.797 0.854 0.853	437
12	2.52	0.854	509
13	2.67	0.853	240
14	2.82	0.820	251
15	2.91	0.787	140
16	2.89	0.928	157
17	2.86	0.795	158
male 10	2.59	0.872	264
11	2.55	0.875	374
12	2.53	0.887	331
13	2.56	0.924	157
14	2.81	0.938	178
15	2.64	0.801	59
TOM Improvement female 10	4.08	0.669	290
11	4.13	0.663	437
12	4.16	0.638	509
13	4.15	0.670	240
14	4.13	0.667	251





Scale	Subscale	Gender	Age	М	SD	N
_			15	4.04	0.623	140
			16	4.25	0.646	157
			17	4.21	0.643	158
		male	10	4.16	0.735	264
			11	4.12	0.740	374
			12	4.06	0.824	331
			13	4.08	0.818	157
			14	4.11	0.746	178
			15	4.32	0.519	59
TOM	Incremental	female	10	3.97	0.592	290
			11	4.00	0.572	437
			12	4.05	0.544	509
			13	4.08	0.545	240
			14	4.07	0.596	251
			15	4.01	0.541	140
			16	4.17	0.568	157
			17	4.20	0.562	158
		male	10	4.03	0.651	264
			11	4.01	0.652	374
			12	4.01	0.720	331
			13	3.99	0.742	157
			14	4.05	0.604	178
			15	4.16	0.451	59
TOM	Learning	female	10	3.85	0.698	290
			11	3.87	0.665	437
			12	3.95	0.618	509
			13	4.01	0.622	240
			14	4.00	0.676	251
			15	3.98	0.622	140
			16	4.10	0.668	157
			17	4.19	0.653	158
		male	10	3.90	0.693	264
			11	3.89	0.711	374
			12	3.96	0.785	331
			13	3.90	0.851	157
			14	3.99	0.664	178
			14	3.99	0.664	178





Scale	Subscale	Gender	Age	М	SD	N
			15	4.00	0.594	59
TOM	Stable	female	10	2.53	0.805	290
			11	2.48	0.817	437
			12	2.43	0.755	509
			13	2.46	0.819	240
			14	2.41	0.749	251
			15	2.57	0.709	140
			16	2.39	0.762	157
			17	2.48	0.772	158
		male	10	2.54	0.858	264
			11	2.61	0.89	374
			12	2.54	0.869	331
			13	2.54	0.911	157
			14	2.52	0.854	178
			15	2.39	0.800	59
TOI	Growth Goal	female	10	3.72	0.712	295
			11	3.77	0.710	443
			12	3.75	0.661	519
			13	3.56	0.695	250
			14	3.52	0.629	262
			15	3.41	0.615	141
			16	3.53	0.659	179
			17	3.50	0.648	184
		male	10	3.66	0.653	264
			11	3.59	0.760	375
			12	3.71	0.729	334
			13	3.52	0.730	157
			14	3.68	0.673	183
			15	3.53	0.780	59
TOI	Incremental Theory	female	10	3.48	1.100	295
			11	3.80	1.150	443
			12	4.11	1.040	519
			13	4.11	1.100	250
			14	4.01	0.971	262
			15	3.96	0.978	141
			16	3.87	1.080	179





Scale	Subscale	Gender	Age	М	SD	N
			17	4.01	1.070	184
		male	10	3.67	1.140	264
			11	3.82	1.060	375
			12	4.01	1.150	334
			13	4.00	1.130	157
			14	4.01	1.180	183
			15	4.48	1.050	59
TPI	Agreeableness	female	10	5.37	1.09	144
			11	5.35	1.13	234
			12	5.30	1.16	363
			13	5.18	1.14	178
			14	5.13	1.09	195
			15	5.00	1.15	131
			16	5.14	1.13	163
			17	5.45	1.16	182
		male	10	4.96	1.22	148
			11	4.93	1.15	243
			12	4.94	1.16	240
			13	4.79	0.964	115
			14	4.72	1.13	167
TPI	Conscientiousness	female	10	5.14	1.17	144
			11	5.14	1.15	234
			12	5.01	1.17	363
			13	4.88	1.30	178
			14	4.79	1.26	195
			15	4.70	1.22	131
			16	4.84	1.21	163
			17	5.18	1.31	182
		male	10	4.87	1.16	148
			11	4.82	1.16	243
			12	4.66	1.17	240
			13	4.64	1.17	115
			14	4.79	1.18	167
TPI	Emotional Stability	female	10	4.77	1.15	144
	Emolional Stability	Torridio	-			
	Emotional Stability	Tomalo	11	4.67	1.17	234





Scale	Subscale	Gender	Age	М	SD	N
			13	4.59	1.20	178
			14	4.51	1.29	195
			15	4.36	1.39	131
			16	4.61	1.26	163
			17	4.79	1.32	182
		male	10	4.72	1.19	148
			11	4.85	1.14	243
			12	4.86	1.10	240
			13	4.60	1.07	115
			14	4.79	1.32	167
TPI	Extraversion	female	10	4.77	1.29	144
			11	4.70	1.32	234
			12	4.73	1.35	363
			13	4.80	1.43	178
			14	4.89	1.40	195
			15	4.66	1.38	131
			16	4.63	1.47	163
			17	4.66	1.58	182
		male	10	4.61	1.30	148
			11	4.81	1.20	243
			12	4.60	1.25	240
			13	4.89	1.20	115
			14	4.74	1.34	167
TPI	Openness	female	10	5.33	1.15	144
			11	5.21	1.13	234
			12	5.26	1.12	363
			13	4.96	1.12	178
			14	5.13	1.10	195
			15	5.02	1.09	131
			16	5.33	1.06	163
			17	5.51	1.10	182
		male	10	4.98	1.14	148
			11	4.76	1.27	243
			12	4.82	1.02	240
			13	4.89	1.02	115
			14	5.04	1.18	167



