

Supplementary Table 1. Summary structure and content classification of the three-vision scales

Dimension	Scales	Items	Answer
Physical	PL-Grade12	B1-B10	
Knowledge	PL-Grade34	B1-B10	Yes/No
	PL-Grade56	B1-B15	
Physical	PL-Grade12	D01C-D10C	Likert four-level
Participatio	PL-Grade34	D01C-D12C	scale (Never/1 to
n			3 times/4 to 6
	PL-Grade56	C01C-C14C	times /Everyday)
		C01D-C14D	Likert five-level
			scale (Less than
			0.5 hour/ 0.5 to 1
			hour /1 to 2
			hours/ more than
			2 hours)
Physical	PL-Grade12	C1-C10	
Motivation	PL-Grade34	C1-C12	Yes/No
	PL-Grade56	D1-D15	Likert five-level
			scale (
Physical	PL-Grade12	D01B-D10B	
Competence	PL-Grade34	D01B-D12B	Yes/No
	PL-Grade56	C01B-C14B	

Supplementary Table 2. Frameworks for the Physical Literacy Questionnaire for Grades 1-2

Dimensionality	Question number	Entry content	Question type
Physical Knowledge	B1-B2	The concept of physical activity	Judgment question
	B3	Benefits of physical activity	
	B4-B5	Knowledge about physical activity safety	
	B6	The concept of health	
	B7	Whether air pollution should continue to exercise	
	B8-B9	The dangers of sitting for a long time	
	B10	Knowledge about the amount of exercise	
	C1	In order to strengthen physical fitness, get sick less	
	C2	To bring me joy	
	C3	To learn new sport skills	
Physical Motivation	C4	Like to meet the new challenge	Judgment question
	C5	To maintain good health	
	C6	In order to complete the sports test in school	
	C7	To meet new friends	
	C8	To look better for my own appearance	
	C9	Due to its inherent amusement	
	C10	Because exercise is important for me	
Physical Participation		Cycling/Running/Gymnastics/Dancing/Skipping/Kick ing shuttles/Playing table	Choice question

tennis/Swimming/Rollerblading/Taekwondo

D01C-D10C

The frequency of these movements over the past 7
days

Physical

D01C-D10C

Choice question

Competency

Whether these movements are mastered or not

Supplementary Table 3. Frameworks for the Physical Literacy Questionnaire for Grades 3-4

Dimensionality	Question number	Entry content	Question type
Physical Knowledge	B1-B2	The concept of physical activity	Judgment question
	B3	Benefits of physical activity	
	B4-B5	Knowledge about physical activity safety	
	B6	The concept of health	
	B7	Whether air pollution should continue to exercise	
	B8-B9	The dangers of sitting for a long time	
	B10	Knowledge about the amount of exercise	
Physical Motivation	C1	In order to strengthen physical fitness, get sick less	Judgment question
	C2	To bring me joy	
	C3	To learn new sport skills	
	C4	Like to meet new challenge	
	C5	To maintain good health	
	C6	In order to complete the sports test in school	
	C7	My friend wants me to exercise more	

	C8	To look better for my own appearance	
	C9	Due to its inherent amusement	
	C10	To meet new friends	
	C11	In order to get good results in sports tests of school	
	C12	Because exercise is important for me	
		Cycling/Running/Gymnastics/Dancing/Skipping	
		rope/Kicking Shuttlecock/Soccer/Table	Choice question
		tennis/Badminton/Swimming/Rollerblading/Taekwondo	
Physical	D01C-Q12C	The frequency of these movements over the past 7	
Participation		days	Choice question
Physical	D01B-D12B	Whether these movements are mastered or not	
Competency			

Supplementary Table 4. Frameworks for the Physical Literacy Questionnaire for Grades 5-6

Dimensionality	Question number	Entry content	Question type
	B1-B2	The concept of physical activity	
	B3	Benefits of physical activity	
	B4、 B6-B7	Knowledge about physical activity safety	
Physical	B5	Type of physical activity	Judgment question
Knowledge	B8	Knowledge about the amount of exercise	
	B9-B10	Whether air pollution should continue to exercise	
	B11-B14	The dangers of sitting for a long time	

	B15	The concept of health	
	D1	Because it is in line with life goals	
	D2	To relieve stress	
	D3	To control weight and improve body shape	
	D4	To bring me joy	
	D5	Because of the enjoy of the process of exercise	
	D6	To maintain health	
Physical	D7	To look better for my own appearance	Likert five-level
Motivation	D8	To maintain relationships	scale
	D9	To learn new sport skills	
	D10	Because everyone thinks you should exercise	
	D11	Because of the requirements of teachers and parents	
	D12	In order to get good results in sports tests	
	D13	Because of the deep love for sports	
	D14	Due to its inherent amusement	
	D15	Because of the importance of health	
		Running/Cycling/Gymnastics/Dancing/Basketball or	
		Football or Volleyball/Badminton or Table Tennis or	
Physical		Tennis/Skipping rope/Sit-ups or	Choice question
Participation		Pull-ups//Rollerblading/Taekwondo/Martial arts/Mountain	
		climbing/Swimming/Skiing	
	C01C-C14C	The frequency of these movements over the past 7	Choice question

days

C01D-C14D

The time of each exercise

Choice question

Physical

C01B-C14B

Whether these movements are mastered or not

Choice question

Competency
