

Evaluation of Students' Outcomes

Advisor

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Objectives

- To study the factors measuring the learners' desired characteristics
- To construct and develop the scale measuring the learners' desired characteristics at Pratom suksa 6 and Matayom suksa 3
- To compare the differences of means of the learners' desired characteristics
- To compare the variances of the learners' desired characteristics
- To evaluate the learners' desired characteristics.

Learners' Desired Characteristics

Factors

- **Academic Knowledge**
- **Thinking Skills**
- **Inquiry and Working Skills**
- **Good Citizenship**

Scale Construction

Part 1: 53 items scale

- * Academic Knowledge
- * Thinking Skills

Part 2: 33 items scale

- * Inquiry and Working Skills
- * Good Citizenship

Difficulty Index and Discrimination Index of Scale Measuring

Difficulty **Discrimination**

P.6

0.57

0.24

M3

0.55

0.24

Reliability of Scale Measuring

	P.6	M3
Academic Knowledge	0.66	0.60
Thinking Skills	0.63	0.59
Inquiry Skills	0.90	0.89
Good Citizenship	0.87	0.86

Concurrent Validity

	P.6	M3
Thai	033	044
English	022	045
Mathematics	027	040

**Construct Validity of
Scale Measuring of P.6**

Chi-Square= 2.25, Df= 27

P-value= 0.77, RMSEA= 0.000

Construct Validity of Scale Measuring of M .3

Chi-Square= 1440, Df= 23

P-value= 0.91, RMSEA= 0.000

Research Sample

Ratchaburi	48 Schools
Chiangrai	43 Schools
Phuket	32 Schools
Khonkaen	42 Schools
Cholburi	34 Schools

School Sample

DSE	38 Schools
ONPEC	101 Schools
OPEC	31 Schools
OLAO	29 Schools
Total	199 Schools

Sample of P.6 Students

ONPEC **5,511 students**

OPEC **3,212 students**

OLAO **3,665 students**

Total **12,388 students**

Sample of M3 Students

DSE **6,467 students**

ONPEC **2,048 students**

OPEC **2,027 students**

OLAO **925 students**

Total **11,467 students**

Academic Subject Means (P.6)

	Thai	Soc	Sci	Math	Eng
ONPEC	47.41	56.33	45.94	28.49	37.52
OPEC	47.20	61.22	50.53	33.75	42.59
OLA0	46.50	58.48	47.32	30.71	36.13
Total	47.09	58.23	47.53	30.51	38.42

Academic Subject Means (M3)

	Thai	Soc	Sci	Math	Eng
DSE	2998	6971	4559	1836	2904
ONPEC	2962	6856	4513	1986	3057
OPEC	3108	7171	4814	2042	3609
OLAO	3072	7036	4680	1873	2896
Total	3017	6991	4606	1902	3055

Learners' Desired Characteristics Means (P.6)

	Acad	Think	Inquiry	Citizen
ONPEC	43.14,	41.58,	51.17,	59.66
OPEC	47.06,	44.51,	49.36,	59.06
OLAQ	43.83,	42.68,	47.69,	57.10
Total	44.36,	42.66,	49.67,	58.75

Leamers' Desired Characteristics

Means (M .3)

	Acad	Think	Inquiry	Citizen
DSE	3853	4818	47.20	57.49
ONPEC	3875	4915	50.28	59.77
OPEC	41.49	5030	46.23	57.72
OLAO	3912	4935	48.14	58.50
Total	3914	4882	47.66	58.02

Comparison of Academic Subject Means Between Provinces

Subjects	P.6	M3
Thai	No differences	No differences
Social Studies	No differences	Choburi Khonkaen
Sciences	No differences	No differences
Math	No differences	No differences
English	No differences	No differences

Comparison of Academic Subject Means

Between Jurisdictions

Subjects	P.6	M3
Thai	No differences	No differences
Social Studies	OPEC > ONPEC	No differences
Sciences	OPEC > ONPEC	No differences
Math	OPEC > ONPEC	No differences
English	No differences	OPEC > DSE

Comparison of Learners' Desired Characteristics Means Between Provinces

Part	P.6	M3
Academic Knowledge	No difference	No difference
Thinking Skills	No difference	Choburi
Inquiry Skills	Khonkaen > Choburi	Khonkaen
Good Citizenship	No difference	Khonkaen > Ratchaburi, Phuket

Comparison of Learners' Desired Characteristics Means Between Jurisdictions

Part	P.6	M3
Academic Knowledge	No difference	OPEC > DES
Thinking Skills	No difference	No difference
Inquiry Skills	OPEC > OLAO	OPEC > DSE, OPEC
Good Citizenship	No difference	No difference

Learners' Desired Characteristics Variances (P.6)

Part	Sources of Variances	Range of Variances
Academic Knowledge	Learners	68- 80
	Schools	19- 32
	Jurisdictions	0- 4
Thinking Skills	Learners	76- 87
	Schools	11- 24
	Jurisdictions	0- 3

Leamers' Desired Characteristics Variances (P.6)

Part	Sources of Varainces	Range of Varainces
Inquiry Skills	Leamers	83-98
	Schools	2-17
	Jurisdiction	0-1
Good Citizenship	Leamers	85-97
	Schools	3-14
	Jurisdiction	0-1

Leamers' Desired Characteristics

Variances (M .3)

Part	Sources of Variances	Range of Variances
Academic Knowledge	Leamers	77-85
	Schools	14-21
	Jurisdiction s	1-3
Thinking Skills	Leamers	79-91
	Schools	8-21
	Jurisdiction s	0-1

Leamers' Desired Characteristics

Variances (M .3)

Part	Sources of Varainces	Range of Varainces
Inquiry Skills	Leamers	86-99
	Schools	1-13
	Jurisdiction s	0-2
Good Citizenship	Leamers	91-99
	Schools	1-8
	Jurisdiction s	0-1

The Evaluative Criteria at Learner Level

	Unsatisfactory	Satisfactory	Good
Academic Knowledge	< 30	30- 60	60 >
Thinking Skills			
Inquiry Skills	< 40	40- 70	70 >
Good Citizenship			

The Evaluative Criteria at School Level

Less than 25% Unsatisfactory

25% - 49% Satisfactory

50% - 74% Quite Good

More Than 74% Good

Learner Quality in P.6

Part	Unsatisfactory	Satisfactory	Good
Academic	11.45	77.99	1056
Thinking Skills	1235	8237	528
Inquiry Skills	2495	67.20	7.85
Good Citizenship	1212	61.41	2647

Learner Quality in M3

Part	Unsatisfactory	Satisfactory	Good
Academic	1675	8032	290
Thinking Skills	268	8584	11.49
Inquiry Skills	2943	6575	482
Good Citizenship	11.62	6540	2298

School Quality in P.6

Part	Unsatisfactory	Satisfactory	Quite Good	Good
Academic	9000	7.50	1.25	1.25
Thinking Skills	9813	1.25	-	062
Inquiry Skills	9625	3.75	-	-
Good Citizenship	4375	4938	687	-

School Quality in M3

Part	Unsatisfactory	Satisfactory	Quite Good	Good
Academic	9919	-	081	-
Thinking Skills	91.94	645	1.61	-
Inquiry Skills	95.97	403	-	-
Good Citizenship	5968	3629	403	-

Conclusion

1. The Learners were unsatisfactory in Academic Knowledge especially Mathematics and English but were quite good in good citizenship.

Conclusion

- The Learners in P.6 Inquiry Skills,
ONPEC > OLAO.

Conclusion

3 InM3

- Academic Knowledge: OPEC > DSE
- Inquiry Skills: ONPEC > DSE, OPEC.

Conclusion

4 The Learners' Desired Characteristics Variances in every parts, were the most from the learners and medium from the schools

Recommendation

1. There should be an evaluation and a further follow-up of learning reform by employing at least two periods of data collection in order to measure clearly the growth of learners' desired characteristics.

Recommendation

2 The teachers should be promoted and developed in those subjects, in learning process organizations. In addition, there should be an acceleration to develop a new generation of mathematics teachers to replace the old ones.

Recommendation

3 There should be a further study exploring the factors affecting learners' desired characteristics and there should be an inquiry seeking strategies to develop the learners' desired characteristics.

Thank you

