

**PEMETAAN KONSEP dan *THINKING ALOUD PAIR PROBLEM SOLVING*
(TAPPS) HIDROLISIS GARAM UNTUK MENINGKATKAN
KETERAMPILAN BERPIKIR KRITIS PESERTA DIDIK SMA**

TESIS

Diajukan untuk memenuhi sebagian syarat untuk memperoleh
gelar Magister Pendidikan Kimia



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2019

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Sebuah Tesis yang diajukan untuk memenuhi salah satu syarat memperoleh gelar
Magister Pendidikan (M.Pd) pada Program Studi Magister Pendidikan Kimia

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Agustus 2019

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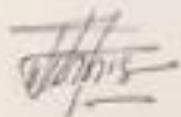
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ABSTRAK

Penelitian ini bertujuan untuk mengembangkan keterampilan berpikir kritis siswa pada materi hidrolisis garam melalui penerapan pembelajaran *Thinking Aloud Pair Problem Solving* (TAPPS) dan Pemetaan Konsep. Metode penelitian ini adalah *quasi experiment*, dengan desain *pretest-posttest nonequivalent control group*. Subjek penelitian adalah 52 siswa dari salah satu SMA di kota Tasikmalaya Jawa Barat, terdiri atas 28 siswa di kelas eksperimen I yang menggunakan model pembelajaran TAPPS dan 24 siswa di kelas eksperimen II yang menggunakan model pembelajaran pemetaan konsep. Instrumen penelitian ini terdiri atas soal tes uraian, serta lembar observasi. Hasil penelitian menunjukkan bahwa keterlaksanaan keseluruhan tahapan model pembelajaran TAPPS dan model pemetaan konsep dikategorikan baik. Model pembelajaran TAPPS dan pemetaan konsep mampu meningkatkan penguasaan materi peserta didik pada kelas TAPPS yaitu $\langle g \rangle 0,71$ sedangkan pada kelas pemetaan konsep $\langle g \rangle 0,38$. Subkonsep yang sangat dikuasai peserta didik ialah hidrolisis anion ($\langle g \rangle 0,88$) pada kelas TAPPS, sedangkan subkonsep yang kurang dikuasai peserta didik ialah hidrolisis total ($\langle g \rangle 0,08$) pada kelas pemetaan konsep. Penerapan model pembelajaran TAPPS dan model pembelajaran pemetaan konsep meningkatkan KBK peserta didik ($\langle g \rangle 0,62$) pada kedua kelas eksperimen, namun dengan peningkatan indikator yang berbeda, yaitu bertanya dan menjawab ($\langle g \rangle 0,97$), menganalisis argumen $0,87$ ($\langle g \rangle 0,97$), pada kelas TAPPS sedangkan pada kelas pemetaan konsep indikator menganalisis argument ($\langle g \rangle 0,54$). Terdapat hubungan yang kuat antara penguasaan materi dan KBK siswa setelah pembelajaran TAPPS dan pemetaan konsep ($r=0,703$).

Kata Kunci : keterampilan berpikir kritis, TAAPS, pemetaan konsep, hidrolisis garam.

ABSTRACT

This study aims to develop students' critical thinking skills on salt hydrolysis material through the application of Thinking Aloud Pair Problem Solving (TAPPS) learning and Concept Mapping. This research method is a quasi experiment, with a pretest-posttest nonequivalent control group design. The research subjects were 52 students from one of the high schools in the city of Tasikmalaya, West Java, consisting of 28 students in the experimental class I who used the TAPPS learning model and 24 students in the experimental class II who used the concept mapping learning model. The instrument of this study consisted of a test item description, as well as an observation sheet. The results showed that the overall implementation of the stages of the TAPPS learning model and the concept mapping model were categorized as good. The TAPPS learning model and concept mapping are able to increase students' mastery of the material in the TAPPS class that is $<g> 0,71$ while in the concept mapping class $<g> 0,38$. The sub concept that is highly controlled by students is hydrolysis of anions ($<g> 0,88$) in the TAPPS class, while the subconcept that is less controlled by students is total hydrolysis ($<g> 0,08$) in the concept mapping class. The application of the TAPPS learning model and the concept mapping learning model increased the critical thinking skills of students ($<g>0,62$) in the two experimental classes, but with an increase in different indicators, namely asking questions and answering ($<g>0,97$), analyzing the arguments ($<g>0,8$) in the TAPPS class while in class mapping concept indicators analyze the argument ($<g> 0,54$). There is a strong relationship between mastery of the material and CBC students after TAPPS learning and concept mapping ($r = 0,703$).

Keywords: critical thinking skills, TAPPS, mapping concept, salt hidrolisis matter.

DAFTAR ISI

LEMBAR HAK CIPTA	
LEMBAR PENGESAHAN	
LEMBAR PERNYATAAN	i
ABSTRAK	ii
ABSTRACT	iii
KATA PENGANTAR	iv
UCAPAN TERIMA KASIH	v
DAFTAR ISI	vi
DAFTAR TABEL	viii
DAFTAR GAMBAR	ix
DAFTAR LAMPIRAN	x
BAB I PENDAHULUAN	
A. Latar Belakang.....	1
B. Rumusan Masalah.....	4
C. Tujuan Penelitian	5
D. Manfaat Penelitian	5
E. Penjelasan Istilah	5
BAB II TINJAUAN PUSTAKA	
A. Keterampilan Berpikir Kritis (KBK)	7
B. Concept Mapping (Pemetaan Konsep).....	13
C. <i>Model Pembelajaran Thinking Aloud Pair Problem Solving (TAPPS)</i>	17
D. Hidrolisis Garam.....	21
1. Pengertian Hidrolisis Garam	21
2. Kemampuan Keterampilan Berpikir Kritis pada Materi Hidrolisis Garam	26

BAB III METODE PENELITIAN

A. Metode dan Desain Penelitian	29
B. Variabel dan Sampel	29
C. Alur Penelitian	30
D. Instrumen Penelitian	32
E. Analisis Instrumen Penelitian	34
F. Teknik Analisis Data.....	39

BAB IV TEMUAN DAN PEMBAHASAN

A. Keterlaksanaan TAPPS dan Concept Mapping dalam Pembelajaran	44
B. Peningkatan Penguasaan Materi Hidrolisis Garam	50
C. Peningkatan Kemampuan Berpikir Kritis Peserta didik TAPPS dan Concept Mapping	57

BAB V SIMPULAN, IMPLIKASI DAN REKOMENDASI

A. Simpulan	67
B. Implikasi	68
C. Rekomendasi	68

DAFTAR PUSTAKA	69
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LAMPIRAN	75
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RIWAYAT HIDUP	166
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