

**PENGARUH PEMBELAJARAN SISTEM KOLOID DENGAN MENGGUNAKAN MACROMEDIA
FLASH TERHADAP HASIL BELAJAR DAN RETENSI HASIL BELAJAR SISWA KELAS XI IPA**

SMA NEGERI 1 TAPA

(Suatu Penelitian di Kelas XI IPA SMA Negeri 1Tapa TP 2008/2009)

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ABSTRACT: Colloid system [is] a mixture form which its [of] located nya [among/between] suspension and condensation (harsh mixture). Name of colloid given by Thomas Graham in the year 1861. That term Come from Yunani language, that is " Kolla" and " Oid". Kolla Mean glue while Oid like. In this case related to glue [is] the nature of its diffusion, because colloid system have low dipusi value like glue because its bigger fairish particle than molecule, that is maximum 1 micrometer. Flash Macromedia [is] animation object creator application which [is] powerful. Added with making [of] graphical object [of] vektor which consist in it, pemrograman [of] Actionscript. such Animassi that is from atom particle motion and molecule which [do] not look with indra pentameter, generalizing cannot from perception, have to earn generalizing with theory. Result learn [is] ability [of] student in knowledge aspect, understanding of, application, analysis, sintesis, and evaluation [at] colloid system items where this ability [is] obtained to [pass/through] media study [of] flash macromedia. ability [of] Student in the aspect expressed in tes score result of learning. Retention result of learning [is] ability [of] student remember items which have been taught by teacher [at] spanning certain time. Retention result of learning student [is] in this case expressed in retention tes score result of learning. This research aim to Know result learn for the items of taught colloid system by using higher flash macromedia from [at] which [is] taught without using flash macromedia and to know retention result of learning for the items of taught colloid system by using higher flash macromedia from [at] which [is] taught without using flash macromedia. This research represent research [of] eksperimental with used [by] pelitian device [at] this research [is] post test design group controle only with XI IPA SMA Country I class student population Live as an ascetic school year 2008 / 2009. Research Sampel divided two class with the each experiment class by using flash macromedia and class control without using flash macromedia with amount of [is] same student that is 21 people. used instrument in the form of objeksif tes. Before tes used to net data, beforehand analyze indicator of[is] quality of tes that is executed [by] reliabilitas and validity [in] SMA Country 4 Gorontalo. Validity Tes obtained 100% and reliabilitas equal to 0,69. Result of research obtained a) [at] tes test result of learning experiment class by using higher obtained score flash macromedia that is = 76,87 compared to tes dennga result of learning [at] class control without using flash macromedia with obtained score = 68,54 in hypothesis test concluded that in signifikan level 0,01 with dk = 40 in the reality diperolen assess $t_{hitung} = 3,93 >$ from $t_{tabel (0,995)(20)} = 2,84$ and H_0 [in] refusing so that can be expressed that result learn natural student [of] study by using flash macromedia by signifikan compared to better [of] natural student [of] study without using macromedia b) [at] retention tes test result of learning experiment class by using higher obtained score flash macromedia that is = - 29,08 compared to tes dennga result of learning [at] class control without using flash macromedia with obtained score = - 30,10 in hypothesis test concluded that in signifikan level 0,01 with dk = 40 in the reality diperolen assess $t_{hitung} = 0,34 <$ from $t_{tabel (0,995)(20)} = 2,84$ and H_0 [in] accepting so that can be expressed that result learn natural student [of] study by using flash macromedia by signifikan compared to better [of] natural student [of] study without using macromedia from hopotesis test [at] retention tes result of learning to be categorized [by] there [is] [relation/link] in study by using flash macromedia.

Keyword: *System Colloid, Macromedia Flash, Result of Learning, Retention result of Learning*