**rusudan mircxulava, nana cxvedaZe, maka lorTqifaniZe**

 **ilias saxelmwifo universiteti**

**saqarTvelos saganmanaTleblo politika da sabunebismetyvelo sagnebSi daniSnul gamocdebTan dakavSirebuli SfoTviTi reaqciebi**

**abstraqti**

2011 wlis gazafxulze saqarTvelos skolebSi sabunebismetyvelo sagnebSi daaxloebiT 20 wlis Semdeg pirvelad Catardeba finaluri (an klasidan klasidan gardamavali) gamocdebi. am saganmanaTleblo reformaze moswavleTa reagirebis erTerT mniSvnelovan komponentad SfoTviTi reaqcia unda CaiTvalos. mocemuli kvleva miznad isaxavs zemoT aRniSnul gamocdebTan dakavSirebiT testuri SfoTvisa (TAQ) (sarasoni) da niSan-mdgomareoba SfoTvis (STAI) (Spilbergeri) doneTa dadgenas Tbilisis skolebis moswavleebTan. kvlevisTvis SeirCa Tbilisis skolebi tipisa (saxelmwifo, kerZo) da ubnebis (prestiJuli, araprestiJuli) mixedviT. kvlevis Sedegebis Tanaxmad, sabunebismetyvelo sagnebSi gamocdebis aqtualoba zrdis testur (oTxive komponentiT) da reaqtiuli SfoTvis maCveneblebs; yvelaze maRal maCvenebels testuri SfoTvidan iZleva daZabulobisa da SfoTviTi reaqciebis komponentebi. aRniSnuli ori komponentis zrda normis farglebSi, xolo amocanisadmi irelevanturi reaqciebisa da sxeulebrivi niSnebis komponentebis zrdis tendencia subnormis farglebSi gvaZlevs uflebas vivaraudoT, rom Tbilisel moswavleTa reaqcia mosalodnel gamocdebze adapturia.

**Kkvlevis mizani**

 saqarTveloSi mimdinare ganaTlebis reformaSi sabunebismetyvelo sagnebis swavlebas (science teaching/learning) mniSvnelovani yuradReba eTmoba. TiTqmis 20 wlis manZilze sagnebs, rogoricaa fizika, qimia, biologia \_ meorexarisxovani mniSvneloba eniWeboda; swavleba/swavla fokusirdeboda sauniversiteto standartizebul misaReb gamocdebze, romelTa Sorisac sabunebismetyvelo sagnebi ar iyo. viTarebas amZimebda isic, rom klasidan klasSi gardamavali gamocdebi mxolod IV, IX da XI klasebSi tardeboda da isic, sabunebismetyvelo sagnebis gareSe. ganaTlebis araswori politikis gamo, mkveTrad iyo Semcirebuli studentebis raodenobac universitetis sabunebismetyvelo fakultetebze. Tanamedrove etapze, saqarTveloSi, romelic boloniis procesSi gawevrianda, ganaTlebis sistemis daaxloebas evropul standartebTan saxelmwifo mniSvneloba eniWeba. Sesabamisad, aqtualuri xdeba rogorc zogadad axal standartTa aTviseba-danergvis, aseve konkretulad, sabunebismetyvelo sagnebTan dakavSirebuli axali midgomis mecnieruli kvlevac.

 2011 wlis gazafxulze saqarTvelos skolebSi sabunebismetyvelo sagnebSi (VI-dan XII klasis CaTvliT) pirvelad (daaxloebiT 20 wlis Semdeg) Sidasemestrul testebTan erTad Catardeba finaluri (klasidan klasSi gardamavali) gamocdebi. wlebis manZilze mxolod 3 saganze (qarTuli, inglisuri, maTematika) orientireba da sabunebismetyvelo sagnebis ignorireba mosalodnelia aisaxos rogorc akademiur maCvenebelze (qulobriv Sedegze), aseve moswavleTa fsiqo-fiziologiur reaqciebzec.

 am etapze, ilias saxelmwifo universitetSi, sabunebismetyvelo sagnebSi mosalodnel gamocdebTan dakavSirebiT, Seswavlil iqna SfoTva, rogorc novaciaze reaqcia. saswavlo wlis dasawyisSi gamokvleva CautardaT Tbilisis (Semdeg etapze kvleva saqarTvelis sxvadasxva regionebzec gavrceldeba) skolebis moswavleebs. kerZod, gamokvleva Catarda Tbilisis centraluri –prestiJuli da periferiuli \_ araprestiJuli ubnebis saxelmwifo da kerZo skolebSi. miRebulia SfoTvis 3 saxis (testuri - 4 komponentiT, pirovnuli da reaqtiuli) maCvenebeli.

 warmodgenili kvlevis **hipoTezaa:** sabunebismetyvelo sagnebSi mosalodnel gamocdebs unda ukavSirdebodes cvlilebebi testuri (aseve reaqtiuli) SfoTvis maCveneblebSi da kerZod, am maCvenebelTa zrda.

warmodgenili kvlevis amocanebia:

1. Tbiliseli moswavleebis sagamocdo SfoTvisa (TAQ)da niSani-mdgomareoba SfoTvis (STASI) donis dadgena. 2. ZiriTadi sakvlevi jgufebis monacemTa Sedareba sakontrolo jgufis monacemebTan (2009 wlis monacemebTan, rodesac sabunebismetyvelo sagnebSi gamocdebi aqtualuri ar iyo). 3. SfoTvis Sesawavla Tbilis statusiT gansxvavebuli skolebis (sajaro \_ kerZo da qalaqis “prestiJuli” \_ “araprestiJuli” ubnebis skolebis) moswavleebSi.

 **ganxilva Rationale**

 kvlevis meTodika iTvaliswinebs saqarTvelos axal saganmanaTleblo politikasa da kerZod, sabunebismetyvelo sagnebSi daniSnul gamocdebze moswavleTa SfoTviTi reaqciis xasiaTis da SfoTviTi draivis (Anxiety drive) xarisxobrivi maxasiaTeblebis gamovlenas.

GkvlevaSi gamoyenebulia j. mandleris, s. sarasonisa da C.Spilbergeris Teoriuli modeli; testur situaciaSi moqmedebs 2 SeZenili ltolva (motivi): amocanasTan dakavSirebuli ltolva (task drive) da SfoTviT gamowveuli ltolva (anxiety drive). Anxiety drive –s ukavSirdeba amocanisadmi relevanturi reaqciebi (swavlebisas SeZenili reaqciebis-Rt analogiuri) (Rat) da amocanisadmi irelevanturi reaqciebi (Ra). Rat-isgan gansxvavebiT, Ra negatiur zemoqmedebas axdens amocanis Sesrulebaze. testuri SfoTvisas Sesrulebis gauareseba Ra-s dominantiT aixsneba.

 **meTodebi**

1. State/Trait Anxiety Inventory (STAI)(C.D. Spielberger.)(adaptirebuli pirveli avtoris mier). 2. Test Anxiety Questionare (TAQ) (S.Sarason ) (adaptirebuli meore avtoris mier).

 eqsperimentul jgufTan gamokvleva Catarda mimdinare saswavli wlis dasawyisSi; monawileoba miiRes Tbilisis skolebis (2 centraluri, 2 periferiuli, 2 saxelmwifo, 2 kerZo skolebis, VI-dan XII klasebis CaTvliT) moswavleebma (N= 463). eqsperimentuli jgufSi gamoyenebuli specialuri instruqcia swored sabunebismetyvelo sagnebTan dakavSirebul gamocdebze axdenda cdispirebis fokusirebas. sakontrolo jgufs (gamokvleva Catarda 1 wlis win) Seadgendnen Tbilisis analogiuri skolebis moswavleebi (N= 96).

**Sedegebi**

 1.zogadi Sedegebi:sarasonisa da Spilbergeris skalebSi miRebuli monacemebi statistikurad **sandod** gansxvavdeba sakontrolo jgufis monacemebisagan. **a)**eqsperimentuli jgufebis testuri SfoTvis (sarasonis skala) qveskalebis jamuri saSualo maCvenebli(M=98.18, SD=22.8)aRemateba sakontrolo jgufis testuri SfoTvis saerTo maCvenebels (M=78.89,SD=16.27) (t=10.97, 1.81E-25, p<0.05. )eqsperimentul jgufebSi testuri SfoTvis subskalebis (daZabuloba (M=23.41,SD=7.24) SfoTva (M=23.16,SD=6.24), amocanisadmi irelevanturi reaqciebi (M=19.56,SD=6.33), sxeulebrivi niSnebi (M=15.88,SD=6.51) monacemebi aRemateba sakontrolo jgufis imave maCveneblebs (M=23.73, SD=5.75, M=24.29, SD=4.75, M=18.56, SD=4.75, M=14.42, SD=5.14) (t=2.58, 0.01, p<0.05; t=2.06, 0.04, p<0.05; t=1.96, 0.05,p=0.05; t=2.33, 0.02,p<0.05;).

 b) STAI-s SedegebiT, eqsperimentuli jgufis mdgomareoba -SfoTvis saerTo maCvenebeli (M=77.99, SD=8.83) statistikurad **sandod** aRemateba sakontrolo jgufis amave maCvenebels (M=53.75, SD=7.33) (t=7.14, 5.98E-12, p<0.05); am monacemebisagan gansxvavebiT, eqsperimentuli jgufis niSani SfoTvis saerTo maCvenebeli (M=38.67, SD=8.06)statistikurad sandod naklebia sakontrolo jgufis amave maCvenebelze (M=46.84, SD=9.82) (t=6.85, 3.67E-11, p<0.05;)

 2. centralur da periferiul skolebSi miRebuli Sedegebis Sedareba: a) periferiul skolebSi testuri SfoTvis saerTo monacemi (M=84.69, SD=23.02)statistikurad **sandod** aRemateba centraluri skolebis amave monacems (M=79.22, SD=22.14) (t=2.6, 0.01, p<0.05); periferiul skolebSi testuri SfoTvis SfoTviTi reaqciebisa da test-ireleventuri reaqciebis qveskalebis monacemebi (M=24.33, SD=6.11, M=20.30,SD=6.3)statistikurad sandod aRemateba centralur skolebSi miRebul analogiur monacemebs (M=21.95, SD=6.08, M=18.82, SD=6.19) (t=4.2, 3.16E-0.5, p<0.05; t=2.54, 0.01, p<0.05;)

 **sxvaoba sando ar aRmoCnda**: periferiul da centralur skolebSi testuri SfoTvis daZabulobisa (M periferia=23.93,SDF=7.24, Mcentri=22.91, SD=7.15) da sxeulebrivi niSnebis (Mperiferia = 16.13, SD=6.66, M centri= 15.54, SD=6.31) parametrTa Soris (t=1.53, 0.13, p<0.05; t=0.98, 0.33, p>0.05;)

 b)periferiul skolebSi niSani SfoTvis maCveneblebi (M=40,56, SD=8.09) statistikurad **sandod** aRemateba centraluri skolebis amave maCvenebels(M=38,35, SD=7.97) (t=2.98, 0.003, p<0.05;) periferiul skolebSi mdgomareoba SfoTvis maCvenebelsa (M=39.53, SD=9.15) da centraluri skolebis amave maCvenebels(M= 38,20, SD=8.75)Soris gansxvaveba statistikurad **mniSvnelovani araa**. (t=1.60, 0.11, p>0.05;)

 3. sajaro da kerZo skolebSi miRebuli Sedegebis Sedareba: a, b) sajaro da kerZo skolebSi testuri SfoTvis saerTo monacems, testuri SfoTvis saZabulobis, SfoTviTi reaqciebis, test-irelevanturi reaqciebis, sxeulebrivi niSnebis qveskalaTa monacemebsa da niSani da mdgomareoba SfoTvis monacemebs Soris **sxvaoba ar aRmoCnda** (t=0.50, 0.61, p<0.05;t=0.21, 0.84, p>0.05; t=0.18, 0,85, p>0.05; t=1.28, 0.20, p>0.05; t=0.11, 0.91, p>0.05; t=0.25, 0.80, p>0.05; t=1.04,0.30, p>0.05;)

 4. testuri SfoTvisa da niSani-mdgomareoba subskalaTa Sedegebis diferencirebuli Sedareba: a)testuri SfoTvis qveskalebis Soris **yvelaze maRali maCvenebeli** aqvs daZabulobisa da SfoTviTi reaciebis komponentebs (M=23.41, SD=7.21, df=462; M=23.14, SD=6.21, df=462. b)testuri SfoTvis saerTo monacemebSi daZabulobisa da SfoTviTi reaqciebis komponentebis maCveneblebi (M=23.41, SD=7.21, M=23.14, SD=6.21 ) statistikurad **sandod** aRemateba test-irelevanturi reaqciebisa da sxeulebrivi niSnebis komponentTa skalur maCveneblebs( M=19.56, SD=6.28, M=15.83, SD=6.48) (t=14.17, 4.23E-38, p<0.05; t=28.05, 8.30E-102, p<0.05; t=15.67, 1.10E-44, p<0.05; t=27.91, 3.50E-101, p<0.05; t=14.40, 4.26E-39, p<0.05;) g)sxeulebrivi niSnebis qveskalis monacemi (saerTo maCvenebeli)(M=5.83, SD=6.48) statistikurad **sandod n**aklebia testuri SfoTvis sam danarCen monacemze ( M=23,41, SD=7.21, M=23.14, SD=6.21, M=19.56, SD=6.28) (t=28.05, 8.30E-102, p<0.05; t=27.91, 3.50E-101, p<0.05; t=14.40, 4.26E-39, p<0.05.) aRniSnuli tedencia vlindeba oTxive eqsperimentul jgufSi. d) STAI-s subskalebs Soris statistikurad **sando gansxvaveba ar aRmoCnda** rogorc saerTo monacemebis, aseve skolebisa da regionebis mixedvitac (t=1.65, 0.10, p>0.05; t=1.20, 0.23,p>0.05; t=0.98, 0.33,p>0.05;t=0.32,0.75,p>0.o5; t=1.97, 0.06,p>0.05).

5. korelaciuri kvleva: a) dadebiTi korelacia gamovlinda sarasonis skalis oTxive subskalas Soris rogorc eqsperimentul, aseve sakontrolo jgufebSi. aRiniSna korelaciuri kavSiris zrdis tendencia \_ eqsperimentul jgufSi, sakontrolosTan SedarebiT, korelaciis koeficientis maCvenebeli ufro maRalia: daZabuloba\_SfoTva (r=0.74, z=0.95, r=0.81, z=1.13, t=1.60, 0.11, p>0.05); daZabuloba\_test-irelevanturi reaqciebi (r=0.52, z=0.58, r=0.63, z=0.74, t=1.45, 0.15,p>0.05) daZabuloba-sxeulebrivi niSnebi ( r=0.49, z=0.54, r=0.66, z=0.79, t=2.27, 0.02, **p<0.05);**SfoTva-test-irelevanturi reaqciebi( r=0.58,z=0.66, r=0.69, z=0.85, t=1.73,0.08, p>0.05); SfoTva-sxeulebrivi niSnebi( r=0.47, z=0.51,r=0.61, z=0.71, t=1.82, 0.07, p>0.05), test-irelevanturi reaqciebi-sxeulebrivi niSnebi ( r=0.37, z=0.39, r=0.62, z=0.73, t=3.09, 0.002, **p<0.05).** b)STAI-s qveskalebs Soris sakontrolo jgufSi korelacia ar gamovlinda (r=0.06, z=0.06,), xolo eqsperimentul jgufSi **gamovlinda maRali korelacia** (r=0.59, z=0.68) (t=5.21, 2.92E-07, p<0.05).

**daskvnebi da gamoyeneba**

kvlevam daadastura wamoyenebuli hipoTeza; kerZod, sabunebismetyvelo sagnebSi gamocdebis aqtualobam gazarda testuri (oTxive komponentiT) da reaqtiuli SfoTvis maCveneblebi. testuri SfoTvis oTxive komponenti Tanabrad ar reagirebs mosalodnel gamocdebze; kerZod, yvelaze maRal maCvenebels iZleva daZabulobisa da SfoTviTi reaqciebis komponentebi. aRniSnuli ori komponentis zrda normis sazRvrebSi, xolo amocanisadmi irelevanturi reaqciebisa da sxeulebrivi niSnebis komponentebis zrdis tendencia subnormis sazRvrebSi gvaZlevs uflebas vivaraudoT, rom Tbilisel moswavleTa reaqcia mosalodnel gamocdebze adapturia. varauds amyarebs testuri SfoTvis subskalebs Soris korelaciis koeficientis zrdis tendencia ZiriTad sakvlev jgufebSi da STAI-s subskalaTa Soris korelaciis gamovlena. SfoTviTi reaqcia ufro Zlieri aRmoCnda (Tumca, normis farglebSi) Tbilisis araprestiJuli ubnebis skolebis moswavleebTan, rac SemdgomSi Seswavlis sakiTxs warmoadgens. Catarebuli gamokvleva (iseve rogorc samomavlod dagegmili analogiuri kvlevebi) xels Seuwyobs saqarTveloSi mimdinare ganaTlebis reformis process sabunebismetyvelo sagnebis swavlebasTan mimarTebaSi.

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