Kev Ua Zauv MCA-Tus Xeem Uas Muab Hloov Lawm (Modified) Cov Kev Piav Qhia Txog Theem Ua Tau (ALDs) Qib Kawm Ntawv 5-8

Qib Kawm Ntawv 5

Xeem Tsis Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 5)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub feem tsawg ntawm cov txuj ci tseem ceeb tshaj ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau.

- **Zauv thiab Kev Ua Zauv:** Tso cov zauv sau ua decimals rau ob qho chaw; ua cov zauv sib ntxiv thiab sib rho uas muaj decimals rau ob qho chaw.
- **Algebra:** Nrhiav txoj kev ua zauv uas yuav tsum siv los ua ib qho kev ua zauv yooj yim.
- **Geometry thiab Kev Ntsuas:** Nrhiav cov net rau cov qauv duab peb-sab dav loj thiab me (dimensional).
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Suav kom nrhiav tau tus zauv nruab nrab ob tog (median) ntawm ib co khoom tsis muaj khub uas teev luv luv.

Xeem Tau Ib Feem Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 5)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub qee yam txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Nrhiav 0.1 ntau dua ib tug zauv thiab 0.1 tsawg dua ib tug zauv; ua cov zauv uas siv ob peb theem ua los yuav tau muab sib ntxiv, sib rho, thiab sib npaug (multiplication).
- **Algebra:** Cov qauv zauv uas sau kom ntev; siv cov sob muaj zauv uas yooj yim los saws cev ib qho kev zauv.
- **Geometry thiab Kev Ntsuas:** Nrhiav cheeb tam sab nraud (surface area) ntawm ib lub qauv duab peb-sab dav loj thiab me uas sawv cev los ntawm ib qho net.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav tus zauv nruab nrab ob tog (median) ntawm ib co zauv uas teev luv luv uas muaj ib thiab ob tug zauv.

Xeem Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 5)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic

Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Tso cov feem (fractions) raws zus; sau cov teb ntawm kev faib (quotients) ua cov zauv whole nrog qhov seem (remainders).
- **Algebra:** Ua ib qho equation los sis inequality uas muaj ib tug variable.
- **Geometry thiab Kev Ntsuas:** Paub cov sab ntawm cov duab peb-sab dav loj thiab me.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav qhov nruab nrab (mean), tus zauv nruab nrab ob tog (median) thiab ib kab sab sib raws (range) ntawm ib cov zauv uas muaj ib thiab ob tug; nyeem tau cov duab ua kab thiab duab bar uas siv cov zauv whole.

Xeem Tau Tshaj Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 5)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub ntau cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Cim tau cov equivalent fractions; muab cov zauv sib faib uas tus zauv uas muab faib rau lwm tus (dividends) muaj txog peb tug.
- **Algebra:** Siv txoj kev cai ua zauv raws zus (order of operations) los ua zauv.
- **Geometry thiab Kev Ntsuas:** Nrhiav qhov seb ntim tau ntau npaum li cas thiab cheeb tsam sab nraud ntawm ib lub duab rectangular prisms.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav qhov nruab nrab (mean), tus zauv nruab nrab ob tog (median) thiab ib kab sab sib raws (range) ntawm ib co zauv uas muaj ib thiab ob tug; txhais tau cov duab ua kab thiab duab bar.

Qib Kawm Ntawv 6

Xeem Tsis Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 6)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub feem tsawg ntawm cov txuj ci tseem ceeb tshaj ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau.

- **Zauv thiab Kev Ua Zauv:** Cim tau tias ration notation tej zaum yuav sau tau sib txawv (piv txwv li, ¼, 1 ntawm 4).
- **Algebra:** Siv cov cai function hauv cov duab graphs.
- **Geometry thiab Kev Ntsuas:** Nrhiav cov ces kaum complementary, right, thiab supplementary.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Paub qhov txwv ntawm theoretical thiab experimental probability.

Xeem Tau Ib Feem Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 6)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub qee yam txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Siv kev sib npaug (multiplication) los nrhiav cov kev ua zauv uas muaj rate thiab ratio.
- **Algebra:** Siv cov cai function hauv cov duab graphs thiab tables.
- **Geometry thiab Kev Ntsuas:** Ua cov kev ua zauv uas muaj cov ces kaum complementary thiab supplementary.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Siv probabilities los ua feem (fractions).

Xeem Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 6)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Hloov cov ratios, feem (fractions), thiab feem pua hauv kev ua zauv.
- **Algebra:** Txiav txim seb qhov value ntawm ib tug variable hauv ib qho equation yog dab tsi.
- **Geometry thiab Kev Ntsuas:** Nrhiav seb lub ces kaum uas tsis paub hauv ib lub duab peb ceg seb loj npaum li cas.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Siv daim duab ua ib tsob ntoo los nrhiav qhov chaw ua piv txwv (sample space).

Xeem Tau Tshaj Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 6)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub ntau cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Hloov ib qho feem pua mus ua ib qho feem (fraction) uas siv cov terms tsawg tshaj plaws.
- **Algebra:** Siv cov equations uas muaj variables los ua cov kev ua zauv.
- **Geometry thiab Kev Ntsuas:** Hloov cov duab muaj ntau sab (polygons) mus ua cov duab peb ceg kaum kom nrhiav tau cov ces kaum sab hauv.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav cov experimental probabilities thiab sau qhov nrhiav tau ntawd ua feem (fractions).

Qib Kawm Ntawv 7

Xeem Tsis Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 7)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub feem tsawg ntawm cov txuj ci tseem ceeb tshaj ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau.

- **Zauv thiab Kev Ua Zauv:** Nrhiav cov positive thiab negative rational numbers uas yog integers ntawm ib txoj kab muaj zauv.
- **Algebra:** Nrhiav cov proportional relationships hauv tej yam muaj tseeb tam sim no..
- **Geometry thiab Kev Ntsuas:** Nrhiav qhov hloov hauv kev ntsuas hauv cov duab geometric uas muaj ntsis zoo tib yam.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav tus zauv nruab nrab ob tog (median) hauv ib pawg zauv uas tso tsis raws zus.

Xeem Tau Ib Feem Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 7)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub qee yam txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Muab cov positive thiab negative rational numbers uas yog integers coj los sib ntxiv thiab sib rho.
- **Algebra:** Cim tau tias linear functions zoo li cas hauv daim duab.
- **Geometry thiab Kev Ntsuas:** Siv scale factors los ua cov zauv hauv cov duab geometric uas muaj ntsis zoo tib yam.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav qhov nruab nrab (mean), tus zauv nruab nrab ob tog (median) thiab ib kab sab sib raws (range) rau ib qhov data twg; nkag siab txog simple probability uas sau ua feem (fraction).

Xeem Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 7)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Ua Zauv:** Siv properties of arithmetic nrog rau cov kev cai ua zauv los ua zauv.
- **Algebra:** Txiav txim qhov slope ntawm ib co duab.
- **Geometry thiab Kev Ntsuas:** Kos daim duab ntawm cov reflections thiab txhais rau hauv ib daim coordinate grid.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Muab qhov nruab nrab (mean), tus zauv nruab nrab ob tog (median) thiab ib kab sab sib raws (range) rau ib pawg zauv hais txog tej qho tseem ntsiab twg coj los

sib piv; nkag siab txog simple probability hauv cov feem (fractions), decimals thiab feem pua.

Xeem Tau Tshaj Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 7)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub ntau cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Muab absolute value coj los sawv cev ua qhov deb hauv ib txoj kab uas muaj zauv.
- **Algebra:** Cim tau seb daim graph of a function hloov li cas thaum uas unit rate hloov.
- **Geometry thiab Kev Ntsuas:** Siv cov ratios ntawm qhov ntev coj los nrhiav qhov cheeb tsam uas muaj ntsis zoo li cov duab geometric.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav qhov cuam tshuam ntawm kev tso los sis tshem tawm ib qho data point ntawm ib pawg nruab nrab (mean) thiab tus zauv nruab nrab ob tog (median); nrhiav qhov probability ua feem (fraction) ntawm cheeb tsam ua piv txwv (sample space).

Qib Kawm Ntawv 8

Xeem Tsis Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 8)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub feem tsawg ntawm cov txuj ci tseem ceeb tshaj ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau.

- **Zauv thiab Kev Ua Zauv:** Ua ib qho equivalent expressions uas muaj scientific notation.
- **Algebra:** Siv cov kev cai ua zauv los ua ib co equivalent expressions.
- **Geometry thiab Kev Ntsuas:** Nrhiav tau Pythagorean Theorem.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav tau cov qauv yooj yim hauv ib pawg zauv hais txog tej qho tseem ntsiab twg.

Xeem Tau Ib Feem Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 8)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub qee yam txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Ua Zauv:** Cim tau cov perfect squares 100 rov hauv.
- **Algebra:** Soj ntsuam cov simple expressions los ntawm qhov muab cov zauv whole los hloov.
- **Geometry thiab Kev Ntsuas:** Cim tau tias tsuas siv Pythagorean Theorem rau cov right triangles xwb.

- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Xav txog cov properties ntawm txoj kab uas haum tshaj.

Xeem Tau Raws Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 8)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Nrhiav cov expressions uas muaj positive integer exponents.
- **Algebra:** Ua cov algebraic equations ntawm ib co specified values ntawm lawv cov variables.
- **Geometry thiab Kev Ntsuas:** Siv Pythagorean Theorem los nrhiav qhov ntev ntawm sab uas tsis paub tias yog dab tsi hauv ib lub right triangle.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Nrhiav txoj kab uas haum tshaj thiab kwv yees txog pawg zauv hais txog tej qho tseem ntsiab.

Xeem Tau Tshaj Li Kev Cai Xeem Ntawv Hauv Tus Xeem Uas Muab Hloov Lawm (Modified Achievement Standards) (Qib Kawm Ntawv 8)

Cov me nyuam kawm ntawv nyob rau theem no muaj peev xwm paub ntau cov txuj ci ntawm kev ua zauv uas teeb rau hauv Minnesota Cov Qauv Quag Kawm Ntawv (Minnesota Academic Standards). Cov txuj ci nram qab no yog cov uas cov me nyuam kawm ntawv no ua tau:

- **Zauv thiab Kev Ua Zauv:** Nrhiav qhov square root ntawm ib tug positive integer.
- **Algebra:** Soj ntsuam cov algebraic expressions uas muaj absolute values.
- **Geometry thiab Kev Ntsuas:** Siv Pythagorean Theorem los nrhiav qhov deb ntawm ob qho chaw hauv ib qho coordinate system.
- **Ntsuam Xyuas Cov Zauv Hais Txog Tej Qho Tseem Ntsiab (Data Analysis):** Kwv yees seb hloov ceev npaum cas (rate of change) raws txoj kab uas haum tshaj.