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BOSHLANG'ICH SINIF O'QUVCHILARINING MATEMATIK
SAVODXONLIGINI EGMA TIZIMI ORQALI BAHOLASH

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Annotatsiya: Mazkur maqolada boshlang'ich sinf o'quvchilarining matematik savodxonligini baholash uchun EGMA (Early Grade Mathematics Assessment) tizimining ahamiyati va qo'llash usullari tahlil qilinadi. EGMA tizimi orqali o'quvchilarning son tushunchasi, arifmetik amallarni bajarish qobiliyati hamda muammoli masalalarni yechish ko'nikmalari baholanadi. Ushbu tizim ta'lim jarayonida o'quvchilarning matematik kompetensiyalarini aniqlash va rivojlantirish uchun muhim vosita hisoblanadi.

Kalit so'zlar: EGMA, matematik savodxonlik, boshlang'ich sinf, baholash tizimi, ta'lim sifati, arifmetik ko'nikmalar.

Абстрактный: В данной статье анализируется значение и методы применения системы EGMA (Early Grade Mathematics Assessment) для оценки математической грамотности учащихся начальной школы. С помощью системы EGMA оцениваются понимание учащимися чисел, способность выполнять арифметические действия и навыки решения задач. Данная система является важным инструментом определения и развития математических компетенций студентов в образовательном процессе.

Ключевые слова: EGMA, математическая грамотность, начальная школа, система оценивания, качество образования, арифметические навыки.

Kirish

Matematika – bu nafaqat aniq fan, balki mantiqiy fikrlash, muammo yechish va hayotiy masalalarni hal qilish vositasi hamdir. Shu sababli, boshlang'ich sinf o'quvchilarining matematik savodxonligini erta bosqichda baholash va rivojlantirish muhim ahamiyat kasb etadi. EGMA (Early Grade Mathematics Assessment) tizimi boshlang'ich sinf o'quvchilarining son tushunchasi, arifmetik amallarni bajarish qobiliyati, muammoli masalalarni yechish ko'nikmalarini baholash uchun ishlab chiqilgan. Ushbu maqolada EGMA tizimining mohiyati, asosiy baholash mezonlari va ta'lim jarayonidagi ahamiyati yoritiladi.

Asosiy qism

1. EGMA tizimining mohiyati va maqsadi

EGMA – bu xalqaro baholash tizimi bo'lib, u boshlang'ich sinf o'quvchilarining matematik savodxonligini aniqlashga yo'naltirilgan. Uning asosiy maqsadi o'quvchilarning son tushunchasi, asosiy arifmetik amallarni bajarish qobiliyati va mantiqiy fikrlash ko'nikmalarini baholashdan iborat. EGMA tizimi quyidagi asosiy jihatlar bo'yicha baholashni amalga oshiradi:

- Sonlarni tanish va ularni taqqoslash
- Qo'shish va ayirish amallari
- Ko'paytirish va bo'lish tushunchasi



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- Muammoli masalalarni yechish
 - Geometrik shakllarni tanish
2. EGMA baholash mezonlari

EGMA tizimi orqali o'quvchilarning matematik ko'nikmalari quyidagi mezonlar asosida baholanadi:

- **Son tushunchasi** – o'quvchining sonlarni tanishi, tartibga solishi va taqqoslashi.
- **Arifmetik amallar** – qo'shish, ayirish, ko'paytirish va bo'lish amallarini to'g'ri bajarish qobiliyati.
- **Matematik mantiq va muammoli masalalar** – o'quvchining real hayotiy masalalarni tushunishi va yecha olish darajasi.
- **O'qitish jarayoniga moslashuvchanlik** – baholash natijalari asosida o'quvchilarning individual ta'lim ehtiyojlarini aniqlash.

3. EGMA tizimining ta'lim jarayonidagi ahamiyati

EGMA tizimi o'quvchilarning matematik bilimlarini rivojlantirish va ta'lim sifati oshishiga xizmat qiladi. Ushbu baholash tizimining ta'lim jarayonidagi ahamiyati quyidagicha:

- O'quvchilarning matematik savodxonlik darajasini aniqlash va ularning zaif tomonlarini aniqlash.
- O'qituvchilarga ta'lim jarayonini shaxsiylashtirish imkoniyatini yaratish.
- O'quv dasturlarini yanada samarali qilish va ta'lim sifatini oshirishga hissa qo'shish.
- O'quvchilarning kelajakdagi bilim olish jarayoniga tayyorgarlik ko'rishiga yordam berish.

Xulosa

Boshlang'ich sinf o'quvchilarining matematik savodxonligini aniqlash va baholash ta'lim tizimining muhim qismi hisoblanadi. EGMA tizimi orqali o'quvchilarning son tushunchasi, arifmetik amallarni bajarish qobiliyati va muammoli masalalarni yechish ko'nikmalari aniqlanadi. Ushbu tizim ta'lim jarayonida o'quvchilarning matematik kompetensiyalarini baholash va rivojlantirish uchun samarali vosita bo'lib xizmat qiladi. Shu sababli, EGMA baholash tizimini ta'lim jarayoniga keng joriy etish boshlang'ich sinf o'quvchilarining bilim darajasini oshirishga yordam beradi.

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