

TIMSS talablariga muvofiq bo'lajak o'qituvchilarning metodik tayyorgarligini rivojlantirishning interaktiv modeli

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Annotatsiya: Ushbu maqolada bo'lajak boshlang'ich sinf o'qituvchilarining metodik tayyorgarligini TIMSS xalqaro baholash dasturi talablari asosida rivojlantirish masalalari tadqiq etilgan. Tadqiqotning o'ziga xosligi - bo'lajak mutaxassislarning kognitiv sohalarini (bilish, qo'llash, mulohaza yuritish) shakllantirishga yo'naltirilgan interaktiv modelning ishlab chiqilganligidir. Maqolada ushbu modelning tarkibiy qismlari, axborot-dasturiy ta'minoti va amaliy samaradorligi tahlil qilingan.

Kalit so'zlar: TIMSS dasturi, metodik tayyorgarlik, interaktiv model, boshlang'ich ta'lim, kognitiv rivojlanish, pedagogik dasturlash, axborot texnologiyalari

Interactive model for developing methodological training of future teachers in accordance with TIMSS requirements

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Abstract: This article explores the issues of developing the methodical preparation of future primary school teachers based on the requirements of the TIMSS international assessment program. The novelty of the research is the development of an interactive model aimed at forming the cognitive domains (knowing, applying, reasoning) of future specialists. The article analyzes the components of this model, software support, and practical effectiveness.

Keywords: TIMSS program, methodical preparation, interactive model, primary education, cognitive development, pedagogical programming, information technology¹

¹ "TIMSS xalqaro baholash dasturi talablari asosida bo'lajak o'qituvchilarning diagnostik kompetensiyalarini shakllantirish texnologiyalari", O.U.PULATOV

Hozirgi kunda oliy ta’limda talabalarga TIMSS haqida nazariy ma’lumotlar berilmoqda, biroq ularda TIMSS topshiriqlarini mustaqil loyihalash va interaktiv metodlar yordamida dars o’tish ko‘nikmalari yetarli darajada rivojlanmagan. Aynan shu bo‘shliqni to‘ldirish uchun Interaktiv metodik modelni ishlab chiqish zarurati yuzaga kelmoqda.

Modelning funksional tuzilishi

Biz taklif etayotgan model o‘zida “Metodik konstruktor - Dasturiy tahlil - Amaliy dars” zanjirini birlashtiradi. Modelning o‘ziga xosligi shundaki, talaba dars jarayonida Python dasturi orqali TIMSS kognitiv sohalari (bilish, qo‘llash, mulohaza yuritish) bo‘yicha topshiriqlarni generatsiya qilishni o‘rganadi.

Dasturiy-metodik vosita (Python algoritmi)

Talabalarning metodik tayyorgarligini raqamlashtirish maqsadida quyidagi algoritm ishlab chiqildi (bu qismni maqolada “metodik innovatsiya” sifatida ko‘rsatasiz):

TIMSS metodik kompetentligini baholash va topshiriq yaratish algoritmi

```
class TIMSS_Model:
```

```
def __init__(self, topic):
```

```
    self.topic = topic
```

```
    self.levels = ["Bilish", "Qo'llash", "Mulohaza yuritish"]
```

```
    def generate_task(self):
```

```
        # Har bir kognitiv daraja uchun metodik tavsiya beradi
```

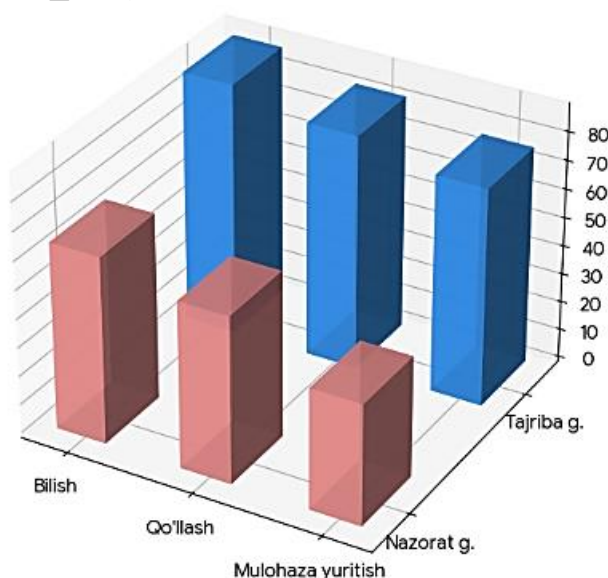
```
        return {lvl: f“{self.topic} mavzusi bo'yicha {lvl} darajasidagi topshiriq tuzing”
```

```
        for lvl in self.levels}
```

```
# Talaba uchun interaktiv topshiriq:
```

```
model = TIMSS_Model(“Boshlang'ich matematika: Kasrlar”)
```

```
print(model.generate_task)
```



Foydalanilgan adabiyotlar

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