

ASTRONOMIYADAN DARS DAN TASHQARI ISHLARNING BAJARILISHI

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***Annotatsiya.** Astronomiya fanidan darsdan tashqari tadbirlarni bir necha usullarda: turli xil viktorinalar, musobaqa-bellashuvlar va astronomiya kechalari ko‘rinishida tashkil qilish mumkin.*

***Kalit so‘zlar:** astronomiya, viktorinalar, musobaqa-bellashuvlar, astronomiya kechalari, o‘qituvchi, innovatsion, faoliyat, component, salohiyat.*

***Аннотация.** Внеклассные занятия по астрономии могут быть организованы несколькими способами: в виде различных викторин, конкурсов, астрономических вечеров.*

***Ключевые слова:** астрономия, викторины, конкурсы, астрономические вечера, учитель, инновационный, деятельность, компонент, потенциал.*

***Annotation.** Extra-curricular activities in astronomy can be organized in several ways: in the form of various quizzes, competitions, and astronomy evenings.*

***Key words:** astronomy, quizzes, competitions, astronomy evenings, teacher, innovative, activity, component, potential.*

KIRISH

Darsdan tashqari tadbirlarni qaysi turda tashkil qilishdan qat’iy nazar, o‘qituvchi-tashkilotchi qo‘lida hamisha yetarlicha ma’lumotlar bo‘lmog‘i zarur. Shu bilan birgalikda o‘qituvchi tadbirda qatnashadigan o‘quvchi- yoshlarning bilimli, zukko, aktyorlik qobiliyatiga ega bo‘lishiga alohida e’tibor bermog‘i lozim.

O‘qituvchi darsdan tashqari tadbirda turli xil qiziqarli she’r, maqol, intermediya va mo‘jizali astronomiyaviy tajribalardan foydalansa, tadbirning mazmuni boyib, o‘quvchi-yoshlarning astronomiya faniga qiziqishi keskin oshishi, shubhasiz.

Zamonaviy o‘qitish tizimida ilg‘or pedagogik texnologiyalar elementlaridan foydalanib o‘qitishni tashkil qilish maqsadga muvofiq keladi, ayniqsa, noan’anaviy usul yordamida tashkil qilingan o‘quv mashg‘ulotlar o‘quvchining bilim olishga bo‘lgan ishtiyoqini yanada o‘stiradi. Masalan, maktabda astronomiya fanidan darsdan tashqari o‘quv mashg‘ulotlarda didaktik o‘yinlardan foydalanish muhim ahamiyatga ega. “Didaktik o‘yinlar” o‘yin maqsadi, o‘yin qoidasi va o‘yin mazmunidan tashkil topadi. O‘yinlarda har bir ishtirokchi, o‘zi uchun yuqoriroq cho‘qqini egallashga harakat qiladi, shu bilan birga ko‘proq bilim olishga intiladi, izlanadi.

Quyida astronomiya fanidan darsdan tashqari mashg‘ulotlarda foydalanish mumkin bo‘lgan o‘yinlardan ba’zilarini keltiramiz:

“Kim diqqatliroq?” o‘yining maqsadi o‘quvchilarning ziyoratligini baholash bo‘lsa, mazmuni-doskaga astronomiyaviy reaksiyalar, formulalar xatoliklar bilan yoziladi. Xatoliklarni topgan o‘quvchi diqqatli deb topiladi, bu o‘yinni laboratoriya

maslh'ulotida ham o'tkazish mumkin. Bunda tajribalarni bajarishda elementar xatoliklarga "yo'l" qo'yiladi (idish og'zini ochiq qoldirish, spirt lampasini boshqa spirt lampasidan yoqish, spirt lampasini yoniq qoldirish va boshqalar). O'quvchilardan bu xatoliklarni tuzatish va ish joyini tozalash talab qilinadi. Hech qanday xatoga yo'l qo'ymagan o'quvchi eng diqqatli hisoblanadi. O'yinni hakam (o'qituvchi) kuzatadi va ballarni doskaga yozib, e'lon qiladi.

"Kim tez va yaxshi?" o'yinining maqsadi - kam vaqt sarflab ko'rsatilgan moddalardan aralashma hosil qilishi va aralashmalarni almashtirib, ularni ajratish talab qilinadi. Masalan, quyidagi moddalar berilgan bo'lishi mumkin: 100 ml suvli stakan, shisha tayoqcha, osh tuzi, alyuminiy sim bo'lakchalari, rux va mis bo'lakchalari. Hakam bajariladigan ishni kuzatadi va xatoliklarni (agar yo'l qo'yilgan bo'lsa) ko'rsatadi hamda baholaydi.

"Hodisani aniqla" o'yinining maqsadi-o'quvchilarni astronomiyaviy va fizikaviy hodisalarni ajrata olishini kuzatishdan iborat. Bunda turli xildagi tajribalar bajariladi, qog'oz yoqiladi, bo'r sindiriladi, shakar va tuz suvga solinadi, qum bilan tuz aralashtiriladi va hokazo. Eng ko'p to'g'ri javob bergan o'quvchi g'olib deb topiladi. Har bir o'yin davomida g'olib o'quvchi hakam tomonidan rag'batlantiriladi.

Bu o'yinlarni o'tkazish vaqtida o'quvchilarga bir-biriga yordam berish kerakligini ham o'rgatib, yana ular o'rtasida o'zaro ahillikni mustahkamlash mumkin. Masalan, qiynalib qolgan o'quvchiga yordam bergani uchun rahmat e'lon qilish yoki ball qo'shib berish ham mumkin. Shuningdek, tevarak-atrofga ehtiyotkorona munosabatda bo'lish kerakligi o'rgatiladi. Masalan, moddalarni yoqish natijasida qanday hodisa sodir bo'ladi, atrof-muhitga qanday moddalar chiqadi, ularning tabiatga qanday zarar va foydasi borligi so'raladi. Har bir ishtirokchi o'z fikrini aytadi va oxirida hakam bildirilgan fikrlarni umumlashtirib, eng yaxshi fikr egasini rag'batlantiradi.

XULOSA

Ko'rib o'tilgan o'yinlardan tashqari "Kim ko'p va tez?", "Nima? Qayerda? Qachon?" kabi o'yinlardan astronomiya darslarida foydalanish mumkin. Buning uchun o'quvchi-talaba quyidagi qiziqarli ma'lumotlardan xabardor bo'lmog'i maqsadga muvofiq.

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