**FIZIKA 9-SINF**

**TEXNOLOGIYA YO‘NALISHI BO‘YICHA**

**TAQVIMIY-MAVZU REJASI  
 (haftasiga 3 soatdan jami 102 soat)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **T/R** | **Bo‘lim va mavzu nomi** | **Soat** | **Taqvimiy muddat** | **Uyga vazifa** | **Izoh** |
| **I CHORAK** | | | | | |
|  | Modda tuzilishining molekulyar-kinetik nazariyasi | 1 |  |  |  |
|  | Molekulalarning o‘lchami va massasi | 1 |  |  |  |
|  | Masalalar yechish | 1 |  |  |  |
|  | Modda miqdori. Molar massa | 1 |  |  |  |
|  | Masalalar yechish | 1 |  |  |  |
|  | Ideal gaz | 1 |  |  |  |
|  | Temperatura | 1 |  |  |  |
|  | Masalalar yechish |  |  |  |  |
|  | Testlar bilan ishlash | 1 |  |  |  |
|  | Gaz molekulalarining harakat tezligi | 1 |  |  |  |
|  | Masalalar yechish. | 1 |  |  |  |
|  | **1-NAZORAT ISHI** | 1 |  |  |  |
|  | Ideal gaz holatining tenglamalari | 1 |  |  |  |
|  | Masalalar yechish | 1 |  |  |  |
|  | Izotermik jarayon | 1 |  |  |  |
|  | Testlar bilan ishlash | 1 |  |  |  |
|  | Izobarik jarayon | 1 |  |  |  |
|  | Testlar bilan ishlash | 1 |  |  |  |
|  | Izoxorik jarayon | 1 |  |  |  |
|  | Masalalar yechish | 1 |  |  |  |
|  | **Amaliy mashg‘ulot-1.** Molekulalarning o‘lchamlarini baholash | 1 |  |  |  |
|  | Masalalar yechish | 1 |  |  |  |
|  | **2-NAZORAT ISHI** | 1 |  |  |  |
|  | Ichki energiya | 1 |  |  |  |
|  | Testlar bilan ishlash | 1 |  |  |  |
|  | Termodinamik ish | 1 |  |  |  |
|  | Masalalar yechish | 1 |  |  |  |
| **II CHORAK** | | | | | |
| **28.** | Issiqlik miqdori | 1 |  |  |  |
| **29.** | Masalalar yechish | 1 |  |  |  |
| **30.** | **Amaliy mashg‘ulot-2.** Jismlarda issiqlik muvozanatini o‘rganish | 1 |  |  |  |
| **31.** | **Laboratoriya ishi-1:** Qattiq jismlarning solishtirma issiqlik sig‘imini aniqlash | 1 |  |  |  |
| **32.** | Masalalar yechish | 1 |  |  |  |
| **33.** | Yoqilg‘ining solishtirma yonish issiqligi | 1 |  |  |  |
| **34.** | Testlar bilan ishlash | 1 |  |  |  |
| **35.** | Termodinamikaning birinchi qonuni | 1 |  |  |  |
| **36.** | Masalalar yechish | 1 |  |  |  |
| **37.** | **3-NAZORAT ISHI** | 1 |  |  |  |
| **38.** | Issiqlik jarayonlarining qaytmasligi. Termodinamikaning II qonuni | 1 |  |  |  |
| **39.** | Masalalar yechish | 1 |  |  |  |
| **40.** | Testlar bilan ishlash | 1 |  |  |  |
| **41.** | **Laboratoriya ishi-2:** Turli temperaturali suv aralashtirilganda issiqlik miqdorlarini taqqoslash | 1 |  |  |  |
| **42.** | Masalalar yechish | 1 |  |  |  |
| **43.** | Ichki yonuv dvigatellari | 1 |  |  |  |
| **44.** | Testlar bilan ishlash | 1 |  |  |  |
| **45.** | Issiqlik dvigatellarining ishlash prinsipi | 1 |  |  |  |
| **46.** | Masalalar yechish | 1 |  |  |  |
| **47.** | **4-NAZORAT ISHI** | 1 |  |  |  |
| **48.** | Testlar bilan ishlash | 1 |  |  |  |
| **49.III CHORAK** | | | | | |
| **49.** | Issiqlik mashinalari va tabiatni muhofaza qilish | 1 |  |  |  |
| **50.** | Masalalar yechish | 1 |  |  |  |
| **51.** | Suyuqlikning xossalari | 1 |  |  |  |
| **52.** | Testlar bilan ishlash | 1 |  |  |  |
| **53.** | Ho‘llash. Kapillyar hodisalar | 1 |  |  |  |
| **54.** | Masalalar yechish | 1 |  |  |  |
| **55.** | Testlar bilan ishlash | 1 |  |  |  |
| **56.** | Masalalar yechish | 1 |  |  |  |
| **57.** | **Laboratoriya ishi-3:** Suyuqlikning sirt taranglik koeffitsiyentini aniqlash | 1 |  |  |  |
| **58.** | Kristall va amorf jismlar | 1 |  |  |  |
| **59.** | Masalalar yechish | 1 |  |  |  |
| **60.** | Qattiq jismlarning mexanik xossalari | 1 |  |  |  |
| **61.** | Masalalar yechish | 1 |  |  |  |
| **62.** | **5-NAZORAT ISHI** | 1 |  |  |  |
| **63.** | Testlar bilan ishlash | 1 |  |  |  |
| **64.** | Qattiq jismlarning erishi va qotishi | 1 |  |  |  |
| **65.** | Masalalar yechish | 1 |  |  |  |
| **66.** | Moddaning solishtirma erish issiqligi. Amorf jismlarning erishi va qotishi | 1 |  |  |  |
| **67.** | Masalalar yechish | 1 |  |  |  |
| **68.** | Bug‘lanish va kondensatsiya | 1 |  |  |  |
| **69.** | Testlar bilan ishlash | 1 |  |  |  |
| **70.** | Atmosferadagi hodisalar | 1 |  |  |  |
| **71.** | Masalalar yechish | 1 |  |  |  |
| **72.** | **Laboratoriya ishi-4:** Havoning nisbiy namligini aniqlash | 1 |  |  |  |
| **73.** | Masalalar yechish | 1 |  |  |  |
| **74.** | Yorug‘lik tezligini aniqlash | 1 |  |  |  |
| **75.** | Yorug‘likning qaytish va sinish qonunlari | 1 |  |  |  |
| **76.** | Testlar bilan ishlash | 1 |  |  |  |
| **77.** | Masalalar yechish | 1 |  |  |  |
| **78.** | **6-NAZORAT ISHI** | 1 |  |  |  |
| **IV CHORAK** | | | | | |
| **79.** | To‘la ichki qaytish | 1 |  |  |  |
| **80.** | Masalalar yechish | 1 |  |  |  |
| **81.** | **Laboratoriya ishi-5:** Shishaning nur sindirish ko‘rsatkichini aniqlash | 1 |  |  |  |
| **82.** | Testlar bilan ishlash | 1 |  |  |  |
| **83.** | Linzalar | 1 |  |  |  |
| **84.** | Masalalar yechish | 1 |  |  |  |
| **85.** | Yupqa linza yordamida tasvir yasash | 1 |  |  |  |
| **86.** | **Laboratoriya ishi-6:** Linzalarning optik kuchini aniqlash | 1 |  |  |  |
| **87.** | Masalalar yechish | 1 |  |  |  |
| **88.** | **7-NAZORAT ISHI** | 1 |  |  |  |
| **89.** | Testlar bilan ishlash | 1 |  |  |  |
| **90.** | Optik asboblar | 1 |  |  |  |
| **91.** | Masalalar yechish | 1 |  |  |  |
| **92.** | Ko‘z va ko‘rish | 1 |  |  |  |
| **93.** | Masalalar yechish | 1 |  |  |  |
| **94.** | Geliotexnika. O‘zbekistonda Quyosh energiyasidan foydalanish | 1 |  |  |  |
| **95.** | Olamning yagona fizik manzarasi | 1 |  |  |  |
| **96.** | Masalalar yechish | 1 |  |  |  |
| **97.** | Testlar bilan ishlash | 1 |  |  |  |
| **98.** | Fizika va texnika taraqqiyoti. O‘zbekistonda fizika sohasidagi tadqiqotlar | 1 |  |  |  |
| **99.** | Masalalar yechish | 1 |  |  |  |
| **100.** | Testlar bilan ishlash | 1 |  |  |  |
| **101.** | **8-NAZORAT ISHI** | 1 |  |  |  |
| **102.** | O‘quv sayohati | 1 |  |  |  |