**13.** **Fisika – IPA SMA/MA**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  | **Lingkup Materi** | | | |  |  |  |  |  |  |  |  |
|  |  | **Level Kognitif** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **Pengukuran dan** |  |  | **Dinamika** |  |  | **Usaha, Energi,** |  |  | **Kalor** |  |  | **Gelombang dan** |  |  | **Listrik, Magnet,** | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **Kinematika** |  |  |  |  |  | **dan Tumbukan** |  |  |  |  |  | **Cahaya** |  | **dan Fisika Modern** | | |  |
|  |  | **Pengetahuan dan** | | Peserta didik dapat | | |  | Peserta didik dapat | |  | Peserta didik | |  | Peserta didik | |  | Peserta didik dapat | |  | Peserta didik dapat | | |  |
|  |  | **Pemahaman** | | memahami: | | |  | memahami: | |  | dapat memahami: | |  | dapat memahami: | |  | memahami: | |  | memahami: | | |  |
|  |  |  Mengidentifikasi | | - | | pengukuran |  | - | hukum Newton |  | - | usaha |  | - kalor | |  |  | - gelombang |  | - | listrik statis | |  |
|  |  |  Menyebutkan | | - | | besaran fisika |  | - | momen gaya |  | - | energi |  | - perpindahan | |  |  | - bunyi |  | - | listrik dinamis | |  |
|  |  |  Menunjukkan | | - | | vektor |  | - | momen inersia |  | - | impuls |  |  | kalor |  |  | - cahaya |  | - | kemagnetan | |  |
|  |  |  Membedakan | | - | | gerak lurus |  | - | fluida (statik dan |  | - | momentum |  | - teori kinetik gas | |  |  | - gelombang |  | - | fisika inti | |  |
|  |  |  Mengelompokkan | | - | | gerak melingkar |  |  | dinamik) |  | - | tumbukan |  |  |  |  |  | elektromagnet |  | - | efek foto listrik | |  |
|  |  |  Menjelaskan | | - | | gerak parabola |  |  |  |  |  |  |  |  |  |  |  | - elastisitas |  |  |  |  |  |
|  |  | **Aplikasi** | |  | Peserta didik dapat | |  | Peserta didik | |  | Peserta didik | |  |  | Peserta didik |  |  | Peserta didik dapat |  | Peserta didik dapat | | |  |
|  |  |  Mengklasifikasi | |  | mengaplikasikan | |  | dapat | |  | dapat | |  |  | dapat |  |  | mengaplikasikan |  | mengaplikasikan | | |  |
|  |  |  Menginterpretasi | |  | pengetahuan dan | |  | mengaplikasikan | |  | mengaplikasikan | |  |  | mengaplikasikan |  |  | pengetahuan dan |  | pengetahuan dan | | |  |
|  |  |  Menghitung | |  | pemahaman tentang: | |  | pengetahuan dan | |  | pengetahuan dan | |  |  | pengetahuan dan |  |  | pemahaman |  | pemahaman | | |  |
|  |  |  Mendeskripsikan | | - | | pengukuran |  | pemahaman | |  | pemahaman | |  |  | pemahaman |  |  | tentang: |  | tentang: | | |  |
|  |  |  Mengurutkan | | - | | vektor |  | tentang: | |  | tentang: | |  |  | tentang: |  |  | - gelombang |  | - | listrik statis | |  |
|  |  |  Membandingkan | | - | | gerak lurus |  | - | hukum Newton |  | - | usaha |  | - kalor | |  |  | - bunyi |  | - | listrik dinamis | |  |
|  |  | - | | gerak melingkar |  | - | medan gravitasi |  | - | energi |  | - perpindahan | |  |  | - cahaya |  | - | kemagnetan | |  |
|  |  |  Menerapkan | |  |  |  |  |  |  |  |
|  |  |  | - gerak parabola | |  | - | momen gaya |  | - | impuls |  |  | kalor |  |  | - gelombang |  | - | fisika inti | |  |
|  |  |  Memodifikasi | |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | - | momen inersia |  | - | momentum |  | - teori kinetik gas | |  |  | elektromagnet |  | - | efek foto listrik | |  |
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|  |  |  |  |  |  |  |  | - | keseimbangan |  | - | tumbukan |  |  |  |  |  | - elastisitas |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | benda tegar |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | - | titik berat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | - | fluida (statik dan |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | dinamik) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Penalaran** | |  | Peserta didik dapat | |  | Peserta didik | |  | Peserta didik | |  |  | Peserta didik |  |  | Peserta didik dapat |  | Peserta didik dapat | | |  |
|  |  |  Menemukan | |  | bernalar tentang: | |  | dapat bernalar | |  | dapat bernalar | |  |  | dapat bernalar |  |  | bernalar tentang: |  | bernalar tentang: | | |  |
|  |  |  Menyimpulkan | | - | | vektor |  | tentang: | |  | tentang: | |  |  | tentang: |  |  | - gelombang |  |  | - listrik statis | |  |
|  |  |  Menggabungkan | | - | | gerak lurus |  | - | hukum Newton |  | - | usaha |  | - kalor | |  |  | - bunyi |  |  | - listrik dinamis | |  |
|  |  |  Menganalisis | | - | | gerak melingkar |  | - | medan gravitasi |  | - | energi |  |  |  |  |  | - cahaya |  |  | - kemagnetan | |  |
| ***Kisi-Kisi UN SMA/MA, SMTK, dan SMAK Tahun Pelajaran 2017/2018*** | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  | | **24** |  |  |
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|  |  |  |  |  |  |  |  |  |  | **Lingkup Materi** | | | |  |  |  |  |  |  |  |
|  | **Level Kognitif** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **Pengukuran dan** |  |  | **Dinamika** |  |  | **Usaha, Energi,** |  |  | **Kalor** |  |  | **Gelombang dan** |  |  | **Listrik, Magnet,** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **Kinematika** |  |  |  |  |  | **dan Tumbukan** |  |  |  |  |  | **Cahaya** |  |  | **dan Fisika Modern** |  |
|  |  Menyelesaikan | |  | - gerak parabola |  | - | momen gaya |  | - | impuls |  | - perpindahan | |  |  | - elastisitas |  |  |  |  |
|  | masalah | |  |  |  | - | momen inersia |  | - | momentum |  |  | kalor |  |  |  |  |  |  |  |
|  |  Merumuskan | |  |  |  | - | keseimbangan |  | - | tumbukan |  |  |  |  |  |  |  |  |  |  |
|  |  Memprediksi | |  |  |  |  | benda tegar |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | - | titik berat |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | - | fluida (statik dan |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | dinamik) |  |  |  |  |  |  |  |  |  |  |  |  |  |