



وزارة التربية والتعليم  
الإدارة المركزية لتطوير المناهج  
مكتب مستشار الرياضيات

**برعاية معالي وزير التربية والتعليم**

**السيد الأسناذ / محمد عبد اللطيف**

ونوجيهات مساعد الوزير لشئون تطوير المناهج التعليمية  
والمشرف علي الإدارة المركزية لتطوير المناهج

**د / أكرم حسن**

إشراف علمي  
مستشار الرياضيات

**أ / منال عزقول**

**أداءات ونقييمات لمنهج الرياضيات**

للصف الثاني الثانوي [ علمي ]

للعام الدراسي ٢٠٢٤ / ٢٠٢٥

إعداد

**د / مدحت عطية شعراوي**

مراجعة

**أ / عفاف جاد**

**أ / محمود سراج**

ترجمة

**أ / محمود سليمان نظيم**

مراجعة الترجمة

**أ / عثمان مصطفى**



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**Classroom Performance Week: (5) Semester (2) Mathematics- Applications**  
**Grade: Second Secondary (Scientific)**

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- (1) A small stone fell from the top of a house and reached the ground after one second. Calculate: The speed of the stone when it reaches the ground.
- (2) A small stone fell from the top of a house and reached the ground after 3 seconds. Calculate the height of the house.
- (3) A small stone was thrown into a well at a speed of 5 m/s vertically downwards and it reached the bottom of the well after 2 seconds.  
Find: The depth of the well.
- (4) A body was thrown into a well at a speed of 8 m/s and reached the bottom of the well after 3 seconds. Find: The speed of the body when it collided with the bottom of the well.
- (5) A particle was thrown vertically upward at a speed of 19.6 m/s. Find the time it took to reach the maximum height.
- (6) A particle was thrown vertically upward at a speed of 49 m/s. After how many seconds does it return to the point of throwing?
- (7) A particle was thrown vertically upwards from a point on the Earth's surface at a speed of 21 m/s. Find: the maximum height reached by the particle.
- (8) A small ball was thrown vertically upwards and then returned to the point of throwing after covering a distance of 245 cm. Find: the time taken for the object to reach the maximum height.
- (9) A particle was thrown vertically upwards from a point on the Earth's surface. The maximum height reached by the particle was 10 meters.  
Find: the speed at which the particle was thrown.
- (10) A particle was thrown vertically upwards from a point on the Earth's surface and returned to it after 6 seconds from the moment of throwing.  
Find: the maximum height reached by the particle.