وزارة التربية والتعليم و التعليم الفنى
الادارة المركزية للتعليم العام
إدارة تنمية مادة الرياضيات

برعاية معالي وزير التربية والتعليم و التعليم الفنى

السيد الأستاذ/ محمد عبد اللطيف

وتوجيهات رئيس الإدارة المركزية للتعليم العام
المشرف على مستشارى المواد الدراسية

د/ هالة عبد السلام خفاجى

إشراف علمي
مستشار الرياضيات

أ/ منال عزقول

أداءات وتقييمات لمنهج تطبيقات الرياضيات لغات

للصف الثانى الثانوي "علمى"
الفصل الدراسى الثانى
للعام الدراسي 2025 / 2026

الأسبوع السادس

إعداد

أ/ محمود سلام　　د/ مدحت عطية شعراوى　　أ/ عفاف جاد

ترجمة

أ/ محمود سليمان نظيم

مراجعة الترجمة

أ/ عثمان مصطفى عثمان　　أ/ عمرو فاروق

(6) الأداء الصفي ـ الصف الثانى الثانوى ـ علمى ـ تطبيقات الرياضيات لغات ـ الأسبوع السادس (6)

(1) A stone was thrown vertically upwards at a speed of 39.2 m/s. Calculate the distance the stone covered in just the third second from the moment of throwing.

(2) From the top of a hill 19.6 meters high, an object was thrown vertically upwards at a speed of 14.7 m/s. Find: The speed of the object when it reached the surface of the earth.

(3) From the top of a hill 19.6 meters high, an object was thrown vertically upwards at a speed of 14.7 m/s. Find: The time taken by the object from the moment it was thrown until it reached the surface of the earth.

(4) A particle was thrown vertically upwards at a speed of 14 m/s from a point 350 meters above the surface of the earth. Calculate the total distance the object traveled from the moment it was thrown until it reached the surface of the earth.

(5) A small ball was thrown vertically upwards from a house window. The ball was seen descending in front of the window 4 seconds after it was thrown, then it reached the ground 5 seconds after it was thrown. Find the height of the window above the ground in meters.

(6) A rubber ball fell vertically downwards from a height of 10 meters, hit the ground and rebounded vertically upwards a distance of 2.5 meters.Calculate: the speed of the ball before and immediately after it hit the ground.

(7) A particle was thrown vertically upwards at a speed of 16 m/sec. Find the time it takes for the particle to reach 330 meters below the point of throwing.

(8) A particle was thrown vertically upwards from the top of a tower at an initial speed of 14.7 m/second. It reached the ground after 5 seconds. Find: the height of the tower.

(9) A ball fell vertically downwards from a height of 90 meters above the ground. Upon reaching the ground, it rebounded back upwards at a speed half the speed at which it reached the ground. Find the maximum height the ball reached.

(10)A body fell from a height of 60 meters above the ground, and at the same moment another body was thrown vertically upwards from the ground at a speed of 20 m/s. The two bodies met after a period of time. Find this time.

(6) الأداء المنزلى ـ الصف الثانى الثانوى ـ علمى ـ تطبيقات الرياضيات لغات ـ الأسبوع السادس (6)

(1) A stone was thrown vertically upwards at a speed of 29.4 m/s. Calculate the distance the stone traveled during the first second only from the moment of throwing.

(2) From the top of a hill 9.8 meters high, an object was thrown vertically upwards at a speed of 4.9 m/s. Find: The speed of the object when it reached the surface of the earth.

(3) From the top of a hill 9.8 meters high, an object was thrown vertically upwards at a speed of 4.9 m/s. Find: The time taken by the object from the moment it was thrown until it reached the surface of the earth.

(4) A particle was thrown vertically upwards at a speed of 19.6 m/s from a point 80.4 meters above the surface of the earth. Calculate the total distance the object traveled from the moment it was thrown until it reached the surface of the earth.

(5) A small ball was thrown vertically upwards from a house window. The ball was seen descending in front of the window 3 seconds after it was thrown, then it reached the ground 4 seconds after it was thrown. Find the height of the window above the ground in meters.

(6) A rubber ball fell vertically downwards from a height of 40 meters, hit the ground and rebounded vertically upwards a distance of 10 meters. Calculate: the speed of the ball before and immediately after it hit the ground.

(7) A particle was thrown vertically upwards at a speed of 14.7 m/s. Find the time it takes for the particle to reach 137.2 meters below the point of throwing.

(8) A particle was thrown vertically upwards from the top of a tower at an initial speed of 19.6 m/second. It reached the ground after 10 seconds. Find: the height of the tower.

(9) A ball fell vertically downwards from a height of 40 meters above the ground. Upon reaching the ground, it rebounded back upwards at a speed of half the speed at which it reached the ground. Find the maximum height the ball reached.

(10) A body fell from a height of 50 meters above the ground, and at the same moment another body was thrown vertically upwards from the ground at a speed of 25 m/s. The two bodies met after a period of time. Find this time.

(6) التقييمات الأسبوعية ـ الصف الثانى الثانوى ـ علمى ـ تطبيقات الرياضيات لغات ـ الأسبوع السادس (6)

First Group

(1) A small stone fell from the top of a tower and reached the ground after 5 seconds. Calculate: The speed of the stone at the moment it reaches the ground.

(2) A small stone was thrown into a well at a speed of 6 m/s vertically downwards and reached its bottom after 4 seconds. Find: The depth of the well.

(3) A stone was thrown vertically upwards at a speed of 58.8 m/s. Calculate the distance the stone traveled during the fourth and fifth seconds only from the moment of throwing.

(4) A particle was thrown at a speed of 19.6 m/s vertically upwards from a point 200 meters above the ground. Calculate the total distance traveled by the particle from the moment it was thrown until it reached the surface of the earth .

(5) A particle was thrown vertically upwards from the top of a tower with an initial speed of 9.8 m/s and reached the surface of the earth after 4 seconds. Find: The height of the tower.

Second group

(1) A small stone fell from the top of a tower and reached the surface of the earth after 2 seconds. Calculate: The speed of the stone at the moment it reached the surface of the earth.

(2) A small stone was thrown into a well at a speed of 10 m/s vertically downwards and reached its bottom after 2 seconds. Find: The depth of the well .

(3) A stone was thrown vertically upwards with a speed of 49 m/s. Calculate the distance traveled by the stone during the second and third seconds only from the moment it was thrown .

(4) A particle was thrown with a speed of 39.2 m/s vertically upwards from a point 150 meters above the surface of the earth. Calculate the total distance traveled by the particle from the moment it was thrown until it reached the surface of the earth.

(5) A particle was thrown from the top of a tower vertically upwards with an initial speed of 24.5 m/s and reached the surface of the earth after 7 seconds. Find: The height of the tower.

The third group

(1) A small stone fell from the top of a tower and reached the surface of the earth after 4 seconds. Calculate: The speed of the stone at the moment it reached the surface of the earth.

(2) A small stone was thrown into a well at a speed of 8 m/s vertically downwards and reached its bottom after 3 seconds. Find: The depth of the well .

(3) A stone was thrown vertically upwards at a speed of 68.6 m/s. Calculate the distance traveled by the stone during the first and second seconds only from the moment of throwing .

(4) A particle was thrown at a speed of 29.4 m/s vertically upwards from a point 100 meters above the surface of the earth. Calculate the total distance traveled by the particle from the moment it was thrown until it reached the Earth's surface.

(5) A particle was thrown vertically upwards from the top of a tower with an initial velocity of 19.6 m/s. It reached the Earth's surface after 6 seconds. Find: the height of the tower.