







THE TRAINS ARE MOVING AT DIFFERENT SPEEDS AND IN DIFFERENT DIRECTIONS.

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CHAPTER 10



THE TRAINS ARE MADE OF
WOOD AND METAL. THEY
ARE VERY DURABLE AND
CAN LAST FOR YEARS.

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CHAPTER 10

THE TRAINS ARE MADE OF
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Stasiun Kereta
Bandung





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Business Process Management (BPM)

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BRITISH RAIL CLASS 150 SPRINT
 A red Sprint passenger train, shown in profile, facing right.



BRITISH RAIL CLASS 158 SPRINT
 A red Sprint passenger train, shown in profile, facing right.



BRITISH RAIL CLASS 159 SPRINT
 A red Sprint passenger train, shown in profile, facing right.



BRITISH RAIL CLASS 160 SPRINT
 A red Sprint passenger train, shown in profile, facing right.



Nombre científico: *...* Nombre común: *...*



Nombre científico: *...* Nombre común: *...*



Nombre científico: *...* Nombre común: *...*





Freight car
© 2008 Lionel LLC



Freight car
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Locomotive
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BRITISH RAILWAYS 1965-1985

BRITISH RAILWAYS 1965-1985



BRITISH RAILWAYS 1965-1985

BRITISH RAILWAYS 1965-1985



BRITISH RAILWAYS 1965-1985

BRITISH RAILWAYS 1965-1985



Green passenger train car



Purple passenger train car





BRITISH RAILWAYS 1500 CLASS MOTOR COACH
1500 (BRITISH RAILWAYS)



BRITISH RAILWAYS 1500



BRITISH RAILWAYS 1500





Intermodal container on a flatbed trailer.



Person operating a forklift.



Blue pallet jack carrying two blue pallets.



LEGO Technic 41111

LEGO Technic 41111



LEGO Technic 41111

LEGO Technic 41111



LEGO Technic 41111



1825-1825: The first passenger train in the world, the Stockton and Darlington Railway, carrying passengers from Stockton to Darlington.

1825-1825: The first passenger train in the world, the Stockton and Darlington Railway, carrying passengers from Stockton to Darlington.



1825-1825: The first freight train in the world, the Stockton and Darlington Railway, carrying coal from Stockton to Darlington.

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1825-1825: The first passenger train in the world, the Stockton and Darlington Railway, carrying passengers from Stockton to Darlington.

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Steam locomotive pulling a passenger car.

Steam locomotive pulling a passenger car.



Steam locomotive pulling a freight car.

Steam locomotive pulling a freight car.



Figure 10.1: A single red freight car and two red freight cars on a track.



Figure 10.2: A single red freight car and two red freight cars on a track.



Wagon *Waggon*
 A large, flat-topped rail vehicle used for carrying heavy goods.



Wagon *Waggon*
 A rail vehicle with a roof, used for carrying goods that need protection from weather.



Wagon *Waggon*
 A rail vehicle with a roof, used for carrying goods that need protection from weather.



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High-speed train, France

Source: www.123rf.com



High-speed train, France

Source: www.123rf.com



Source: www.123rf.com

Source: www.123rf.com



Power Windows
 19.15



Power Windows
 19.15



Power Windows
 19.15





BRUNNEN TRACTOR WITH LONG RED TRAILER
BRUNNEN TRACTOR WITH LONG RED TRAILER



BRUNNEN TRACTOR WITH RED TRAILER
BRUNNEN TRACTOR WITH RED TRAILER



BRUNNEN TRACTOR WITH BLUE TRAILER
BRUNNEN TRACTOR WITH BLUE TRAILER





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Trains are used to transport goods and passengers across long distances.

Trains are used to transport goods and passengers across long distances.



High-speed trains are used to transport passengers quickly across long distances.

High-speed trains are used to transport passengers quickly across long distances.



Semi-trucks are used to transport goods across long distances.

Semi-trucks are used to transport goods across long distances.



Il treno parte da una stazione a $t = 0$ e si muove con accelerazione costante a . Dopo aver percorso una distanza s , il treno si ferma per un tempo t_0 e riparte con accelerazione costante a . Dopo aver percorso una distanza s , il treno si ferma per un tempo t_0 e riparte con accelerazione costante a . Dopo aver percorso una distanza s , il treno si ferma per un tempo t_0 e riparte con accelerazione costante a .



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Figure 18.1: A set of four passenger train cars, each with a different color scheme.

Figure 18.2: A set of four passenger train cars, each with a different color scheme.



Figure 18.5.1: A purple freight car.

Figure 18.5.2: A purple freight car.



Figure 18.5.3: A purple freight car.

Figure 18.5.4: A purple freight car.



Figure 18.5.5: A blue freight car.

Figure 18.5.6: A blue freight car.





Il primo carrello si muove verso il secondo carrello con velocità v_1 e il secondo carrello si muove verso il primo carrello con velocità v_2 .

Il primo carrello si muove verso il secondo carrello con velocità v_1 e il secondo carrello si muove verso il primo carrello con velocità v_2 .



Il primo carrello si muove verso il secondo carrello con velocità v_1 e il secondo carrello si muove verso il primo carrello con velocità v_2 .

Il primo carrello si muove verso il secondo carrello con velocità v_1 e il secondo carrello si muove verso il primo carrello con velocità v_2 .



1. The engine is the most important part of the train. It provides the power to move the train along the tracks. There are many different types of engines, including steam, diesel, and electric.

2. The engine is the most important part of the train. It provides the power to move the train along the tracks. There are many different types of engines, including steam, diesel, and electric.



3. The passenger car is the most important part of the train. It carries the passengers. There are many different types of passenger cars, including open-air cars, dome cars, and observation cars.



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BRITISH RAILWAYS: THE HISTORY OF THE RAILWAY

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BRITISH RAILWAYS: THE HISTORY OF THE RAILWAY



1825: The first steam locomotive, the *Newcomen*, was used to transport coal from the mines to the ships.



1825: The first passenger train, the *Stockton and Darlington*, was used to transport passengers between the two cities.



1825: The first passenger train, the *Stockton and Darlington*, was used to transport passengers between the two cities.





BRITISH RAIL CLASS 159 SPRINT

BRITISH RAIL CLASS 159 SPRINT



BRITISH RAIL CLASS 108 DMU

BRITISH RAIL CLASS 108 DMU



BRITISH RAIL CLASS 158 SPRINT

BRITISH RAIL CLASS 158 SPRINT





TOY TRAIN ENGINE
BRAND: **LEGO**



TOY TRAIN CAR
BRAND: **LEGO**



TOY TRAIN CAR
BRAND: **LEGO**



Freight car on tracks. © AP/WIDEWORLD



Freight car on tracks. © AP/WIDEWORLD



Passenger train on tracks. © AP/WIDEWORLD



BRITISH RAIL FREIGHT WAGON



BRITISH RAIL FREIGHT WAGON



BRITISH RAIL FREIGHT WAGON



BRITISH RAIL FREIGHT WAGON



BRITISH RAILWAYS: THE HISTORY OF THE RAILWAYS OF GREAT BRITAIN

BRITISH RAILWAYS: THE HISTORY OF THE RAILWAYS OF GREAT BRITAIN



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BRITISH RAILWAYS: THE HISTORY OF THE RAILWAYS OF GREAT BRITAIN









Figure 18.1: Three different tanker trucks. The first is a single-axle tanker truck, the second is a two-axle tanker truck, and the third is a three-axle tanker truck.





Orthographic Projection



Orthographic Projection



Orthographic Projection





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BRITISH RAIL CLASS 05
DIESEL LOCOMOTIVE



BRITISH RAIL CLASS 07
DIESEL LOCOMOTIVE



BRITISH RAIL CLASS 08
DIESEL LOCOMOTIVE





1950-1955

1950-1955



1955-1960

1955-1960



1960-1965

1960-1965





Freight train car

Freight train car



Yellow taxi cab

Yellow taxi cab



Blue and red pickup truck

Blue and red pickup truck



Figure 10.1: Three different models of vintage passenger train cars. The top image shows a black and white Pullman-style car. The middle and bottom images show color Pullman-style cars with maroon and white livery.



BRITISH RAILWAYS (1962-1980) CLASS 1 LOCOMOTIVES. THE CLASS 1 LOCOMOTIVES WERE THE FIRST OF THEIR KIND TO BE BUILT IN BRITAIN. THEY WERE DESIGNED BY BRITISH RAILWAYS AND WERE BUILT BY BRITISH RAILWAYS. THE CLASS 1 LOCOMOTIVES WERE THE FIRST OF THEIR KIND TO BE BUILT IN BRITAIN. THEY WERE DESIGNED BY BRITISH RAILWAYS AND WERE BUILT BY BRITISH RAILWAYS.



BRITISH RAILWAYS

BRITISH RAILWAYS



BRITISH RAILWAYS

BRITISH RAILWAYS



Figure 10.1: A train moving through a tunnel. The top photo shows the train's front with headlights on. The middle photo shows the train's side with windows. The bottom photo shows the train's rear with taillights on.

Figure 10.2: A train moving through a tunnel. The top photo shows the train's front with headlights on. The middle photo shows the train's side with windows. The bottom photo shows the train's rear with taillights on.



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BRITISH RAILWAYS

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BRITISH RAILWAYS CLASS 25

BRITISH RAILWAYS



BRITISH RAILWAYS CLASS 158

BRITISH RAILWAYS



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CLASS 47 STEAM LOCOMOTIVE

CLASS 47 STEAM LOCOMOTIVE



CLASS 47 STEAM LOCOMOTIVE

CLASS 47 STEAM LOCOMOTIVE



CLASS 47 STEAM LOCOMOTIVE

CLASS 47 STEAM LOCOMOTIVE

CLASS 47 STEAM LOCOMOTIVE



PROBLEMA 13.21 (1)

PROBLEMA 13.21



PROBLEMA 13.21 (2)

PROBLEMA 13.21



CONCRETE MIXER TRUCKS
 The new 1000 Series concrete mixer truck is designed for high-capacity concrete mixing and transport. It features a large drum and a powerful engine for efficient performance.

CONCRETE MIXER TRUCKS
 This model is ideal for large-scale construction projects, offering a reliable and durable solution for concrete transport.



CONCRETE MIXER TRUCKS
 The 1000 Series concrete mixer truck is a versatile and efficient piece of equipment for any concrete contractor.

CONCRETE MIXER TRUCKS
 This truck is built to last, providing a long service life and consistent performance in various conditions.



CONCRETE MIXER TRUCKS
 The 1000 Series concrete mixer truck is a top choice for professionals in the construction industry.

CONCRETE MIXER TRUCKS
 This truck offers a range of features and options to meet specific project requirements.



Il treno è composto da un motore e da tre vagoni. Il motore ha una massa di 10 kg e i vagoni hanno masse di 20 kg, 30 kg e 40 kg. Il treno si muove su una pista dritta e liscia. Il motore esercita una forza di trazione di 100 N. Calcola l'accelerazione del treno e la forza di contatto tra i vagoni.



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Concrete pump truck with a long boom extending over the site.

Concrete pump truck with a long boom extending over the site.



Concrete pump truck with a long boom extending over the site.

Concrete pump truck with a long boom extending over the site.

Concrete pump truck with a long boom extending over the site.



Figure 10.1: Two photographs of a train engine moving in opposite directions. The top photograph shows the engine moving from left to right, and the bottom photograph shows the engine moving from right to left.





Figure 1: A photograph showing a group of people, possibly a family, sitting together at a table in a dining setting.



Figure 2: A photograph of a large, multi-story building with a prominent central tower or entrance, possibly a university or institutional building.



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The image shows a blue and white passenger train car, likely a Pullman, on a track. The car is long and rectangular, with a dark blue lower section and a white upper section. It is positioned on a set of tracks, and the background is a plain, light-colored wall.



BRUNNEN 1 9 2 0 2 0



BRUNNEN 1 9 2 0 2 0



Group photo of the team.



Person in uniform at the scene.

Person in uniform at the scene.

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