High-Speed Trains

1. **axle** [Noun] ax•le
   Sentence: A wheel, or wheels, turns around an axle.
   Definition: a bar around which a wheel or wheels revolves

2. **engineer** [Noun] en•gi•neer
   Sentence: An engineer operates a train.
   Definition: a person who is responsible for the safe operation of a train

3. **fuel efficient** [Adjective]
   Sentence: Mom complains that our car is not very fuel efficient whenever we stop at the gas station.
   Definition: making good use of fuel as measured in miles per gallon

4. **network** [Noun] net•work
   Sentence: All the parts of a network are connected to each other.
   Definition: a group of things that are related or connected to each other; a group of computers that communicate with each other

5. **obstacle** [Noun] ob•sta•cle
   Sentence: Workers used a tractor to push the obstacle out of the way.
   Definition: something that gets in the way, preventing progress or movement

6. **sustainable** [Adjective] sus•tain•a•ble
   Sentence: Solar energy is a sustainable power source.
   Definition: able to be used in a way that does not completely use up or cause permanent damage to a resource

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axle
(noun)

1. An **axle** is a fixed point or bar around which a wheel turns.
2. When the **axle** on the wagon broke, the pioneers were stuck.
3. An **axle** can hold one wheel or several wheels.

engineer
(noun)

1. An **engineer** is responsible for the safe operation of a train or other form of public transportation.
2. A locomotive or railroad **engineer** operates a freight or passenger train.
3. A train **engineer** is one of the rail industry's most able and experienced workers.

fuel efficient
(adjective)

1. The more miles a vehicle goes on a gallon of fuel, the more **fuel efficient** it is.
2. A **fuel efficient** vehicle can go a long way on a single tank of gas.
3. A bicycle is very **fuel efficient** because it uses no fuel at all.

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network
(noun)

1. A **network** is a group of people or things that are connected to each other.
2. In a computer **network**, individual computers are connected to a server, like spokes are connected to the hub of a wheel.
3. A trade **network** includes all the people who come in contact with each other while doing business.

obstacle
(noun)

1. An **obstacle** can be physical, such as a fallen tree on a road, or abstract, such as lack of motivation.
2. After the rainstorm, more than one **obstacle**, or barrier, blocked the trail.
3. Poverty is an **obstacle** to education when families don't have money for books or transportation to school.

sustainable
(adjective)

1. A **sustainable** harvest of resources will not destroy an ecosystem.
2. Another word for ***sustainable*** is *maintainable*.
3. **Sustainable** agriculture uses methods that do not permanently damage the soil, so it can be practiced every year.

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Name: _____

INSTRUCTIONS: Record a vocabulary word in each word box. Then write a synonym and an antonym, draw a picture, and define each word. Use each word in a sentence on the back of this worksheet.

Word	Picture
_____	

_____
Synonym

_____
Antonym

Definition _____

_____

Word	Picture
_____	

_____
Synonym

_____
Antonym

Definition _____

_____

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axle

a bar around which a wheel or wheels revolves
(noun)

engineer

a person who is responsible for the safe operation of a train
(noun)

fuel efficient

making good use of fuel as measured in miles per gallon
(adjective)

network

a group of things that are related or connected to each other; a group of computers that communicate with each other
(noun)

obstacle

something that gets in the way, preventing progress or movement
(noun)

sustainable

able to be used in a way that does not completely use up or cause permanent damage to a resource
(adjective)

Name: _____

An **analogy** shows a relationship between two sets of words. The words in the first pair must have the same relationship as the words in the second pair. To complete an analogy with a missing word, you must first discover the relationship between the completed pair. (Example: *Cat is to meow as dog is to bark.*)

fly	assistance	accept	idea	turning	meters

INSTRUCTIONS: Determine the relationship between the first pair of words. Then use the words in the word box to complete the second pair of words.

1. **Network** is to *system* ...as... **thought** is to _____.
2. **Fuel efficient** is to *miles per gallon* ...as... **swimming pool** is to _____.
3. **Axle** is to *fixed* ...as... **wheel** is to _____.
4. **Engineer** is to *drive* ...as... **pilot** is to _____.

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Name: _____

An **analogy** shows a relationship between two sets of words. The words in the first pair must have the same relationship as the words in the second pair. To complete an analogy with a missing word, you must first discover the relationship between the completed pair. (Example: *Cat is to meow as dog is to bark.*)

assistance	meters	idea	turning	fly	accept

INSTRUCTIONS: Determine the relationship between the first pair of words. Then use the words in the word box to complete the second pair of words.

5. **Obstacle** is to *barrier* ...as... **help** is to _____.

6. **Sustainable** is to *sustain* ...as... **acceptable** is to _____.

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Name: _____

sustainable	**obstacle**	**network**	**fuel efficient**	
engineer	**axle**			

INSTRUCTIONS: Use the vocabulary words in the word box above to complete the sentences below.

1. Mom complains that our car is not very _____ whenever we stop at the gas station.

2. All the parts of a _____ are connected to each other.

3. A wheel, or wheels, turns around an _____.

4. An _____ operates a train.

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Name: _____

sustainable	**network**	**fuel efficient**	**obstacle**
axle	**engineer**		

INSTRUCTIONS: Use the vocabulary words in the word box above to complete the sentences below.

5. Workers used a tractor to push the _____ out of the way.

6. Solar energy is a _____ power source.

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Name: _____

A **noun** is a person, place, thing, or idea. If the noun is the name of a person or a specific place, it is called a **proper noun**. A proper noun is always capitalized.

INSTRUCTIONS: Read the words below. Decide whether the word is best classified as a person, place, thing, or idea. Then write each word in the appropriate column.

engineer network obstacle axle

PERSON	PLACE	THING	IDEA

Use each noun from the table in a sentence.

1. _____.
2. _____.
3. _____.
4. _____.

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Name: _____

A **noun** is a person, place, thing, or idea. If the noun is the name of a person or a specific place, it is called a **proper noun**. A proper noun is always capitalized.

Write three words that are not nouns.

_____ _____ _____

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Name: _____

INSTRUCTIONS: Use what you know about the vocabulary words to complete the following sentences.

1. The **axle** of a car is found _____.
2. An example of a **network** is _____.
3. An example of a **sustainable** resource is _____.
4. An example of an **obstacle** on a bike path might be _____.
5. A **fuel efficient** car gets good _____.
6. An **engineer** might work on a _____.

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Name: _____

INSTRUCTIONS: Choose the best answer to complete each statement.

1. A _____ turns around an axle.
   - ⓐ lever
   - ⓑ wheel
   - ⓒ fulcrum

2. A train engineer is not responsible for _____.
   - ⓐ driving
   - ⓑ selling tickets
   - ⓒ safety

3. If your car is fuel efficient, it makes good use of _____.
   - ⓐ fuel
   - ⓑ tires
   - ⓒ gas stations

4. In a computer network, individual computers are connected to a _____.
   - ⓐ printer
   - ⓑ Internet
   - ⓒ server

5. An obstacle _____ progress or movement.
   - ⓐ causes
   - ⓑ supports
   - ⓒ blocks

6. A sustainable harvest will _____ a resource.
   - ⓐ not completely use up
   - ⓑ cause permanent damage to
   - ⓒ have no effect on

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