

# Navigating the Modern Automotive Technology, c2026, Digital Companion on G-W Online



- 1 Select the **Digital Companion** on your G-W Online Account.

## G-W Online

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### Modern Automotive Technology 11e, Online Instructor Resources Suite



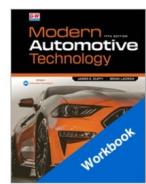
Modern Automotive Technology 11e, eBook



Modern Automotive Technology 11e, Online Textbook



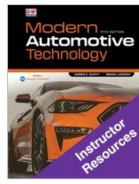
Modern Automotive Technology 11e, Digital Companion



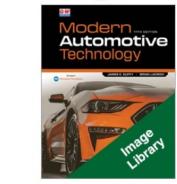
Modern Automotive Technology 11e, Workbook



Modern Automotive Technology 11e, Shop Manual



Modern Automotive Technology 11e, Instructor Resources

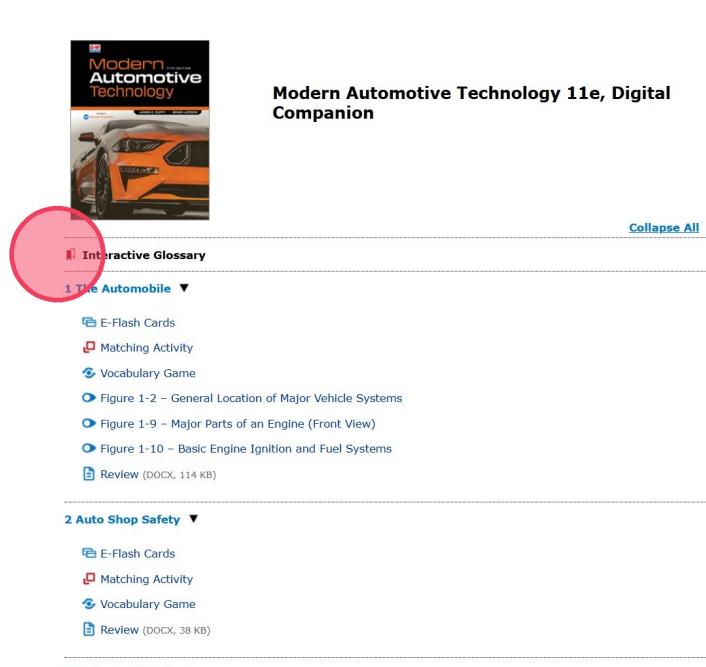


Modern Automotive Technology 11e, Image Library



Modern Automotive Technology 11e, G-W Assessment

2 Select the **Interactive Glossary** to view the terms in this product.



The screenshot shows the digital companion interface for 'Modern Automotive Technology 11e'. At the top, there is a thumbnail image of the book cover. Below it, the title 'Modern Automotive Technology 11e, Digital Companion' is displayed. A red circle highlights the 'Interactive Glossary' link under the '1 The Automobile' section. The 'Interactive Glossary' section contains several items: E-Flash Cards, Matching Activity, Vocabulary Game, Figure 1-2 – General Location of Major Vehicle Systems, Figure 1-9 – Major Parts of an Engine (Front View), Figure 1-10 – Basic Engine Ignition and Fuel Systems, and a Review (DOCX, 114 KB). Below this, another section titled '2 Auto Shop Safety' is partially visible.

3 Users may choose to view the list in alphabetical order.



The screenshot shows the 'All Terms' page in the digital companion. At the top, there is a heading 'All Terms' and a dropdown menu labeled 'Select Chapter' with a 'View All' button. A red circle highlights the 'View All' button. Below the heading, a list of terms is displayed in alphabetical order, each preceded by a small red arrow pointing to the right. The terms include: 12-volt battery, 12-volt starting system, ABS control module, ABS hydraulic modulator, ABS warning light, absorbed glass mat battery, ac generator, acceleration sensor, accelerator pedal sensor, accelerometer, accessory system, accumulator, accumulator valve, acid-core solder, acronym, active parking assistance system, active restraint system, and active sensor.

4

Or they may select a specific chapter to view the terms and definitions specifically in that chapter.

**3: Basic Hand Tools**

3: Basic Hand Tools View All

- Allen drive ►
- ball peen hammer ►
- breaker bar ►
- C-clamp ►
- chisel ►
- dead blow hammer ►
- extension ►
- file ►
- hacksaw ►
- impact socket ►
- pickup tool ►
- pliers ►
- pry bar ►
- puller ►
- punch ►
- ratchet ►
- rubber mallet ►
- scratch awl ►

5

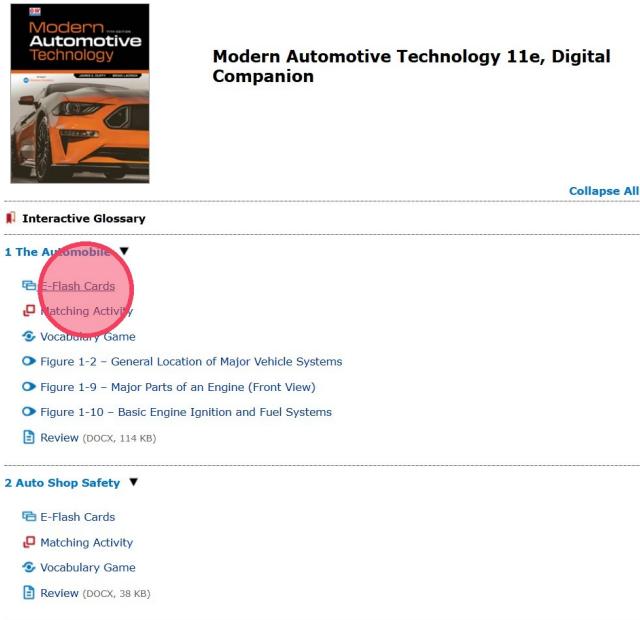
To view the definitions of each term, click on the link to reveal its definition.

**3: Basic Hand Tools**

3: Basic Hand Tools View All

- Allen drive ►
- ball peen hammer ►
- breaker bar ►
- C-clamp ►
- chisel ►
- dead blow hammer ►
- extension ►
- file ►
- hacksaw ►
- impact socket ►
- pickup tool ►
- pliers ►
- pry bar ►
- puller ►
- punch ►
- ratchet ►
- rubber mallet ►
- scratch awl ►

6 Each chapter comes with a set of E-Flash Cards. Select the **E-Flash Cards** link to practice this activity.



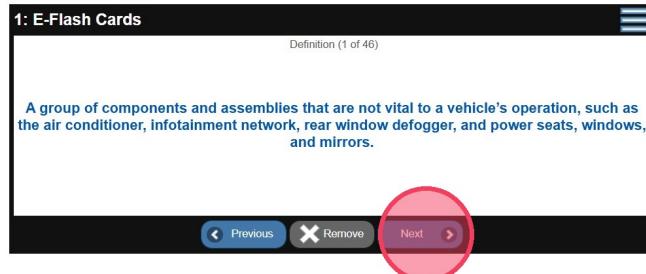
The screenshot shows the 'Modern Automotive Technology 11e, Digital Companion' website. At the top, there is a thumbnail image of an orange car. Below it, the title 'Modern Automotive Technology 11e, Digital Companion' is displayed. A 'Collapse All' button is located in the top right corner. The main content area is titled 'Interactive Glossary' and contains a section titled '1 The Automobile' with a dropdown arrow. Under this section, the 'E-Flash Cards' link is highlighted with a red circle. Other links in this section include 'Matching Activity', 'Vocabulary Game', 'Figure 1-2 – General Location of Major Vehicle Systems', 'Figure 1-9 – Major Parts of an Engine (Front View)', 'Figure 1-10 – Basic Engine Ignition and Fuel Systems', and 'Review (DOCX, 114 KB)'. Below this is another section titled '2 Auto Shop Safety' with a dropdown arrow, containing similar links for E-Flash Cards, Matching Activity, Vocabulary Game, and Review.

7 A vocabulary term will display on the E-Flash Card. Guess the definition of that term and select the card to flip it and see if you were right.

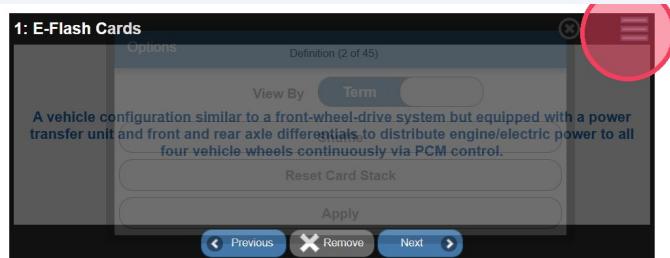


The screenshot shows a single E-Flash Card from the '1: E-Flash Cards' section. The card displays the term 'accessory system' in blue text. A red circle highlights this term. In the top right corner of the card, there is a green icon of a hand pointing up and the text 'Select to flip'. At the bottom of the card, there are three buttons: 'Previous', 'Remove', and 'Next'. The top of the card shows the text '1: E-Flash Cards' and 'Term (1 of 46)'.

8 You may select the "Next" button to move forward or "Previous" button to go back.

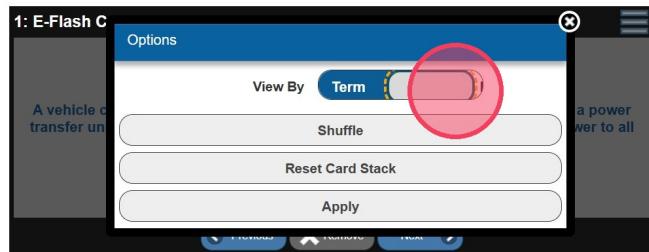


9 Select the menu button in the upper right hand of the E-Flash Card to reveal additional tools.



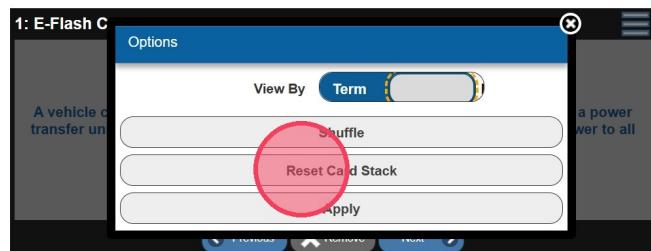
10

You may choose to view the E-Flash Cards by term or definition. You may also select the Shuffle button to shuffle the terms in the deck and then select **Apply**.



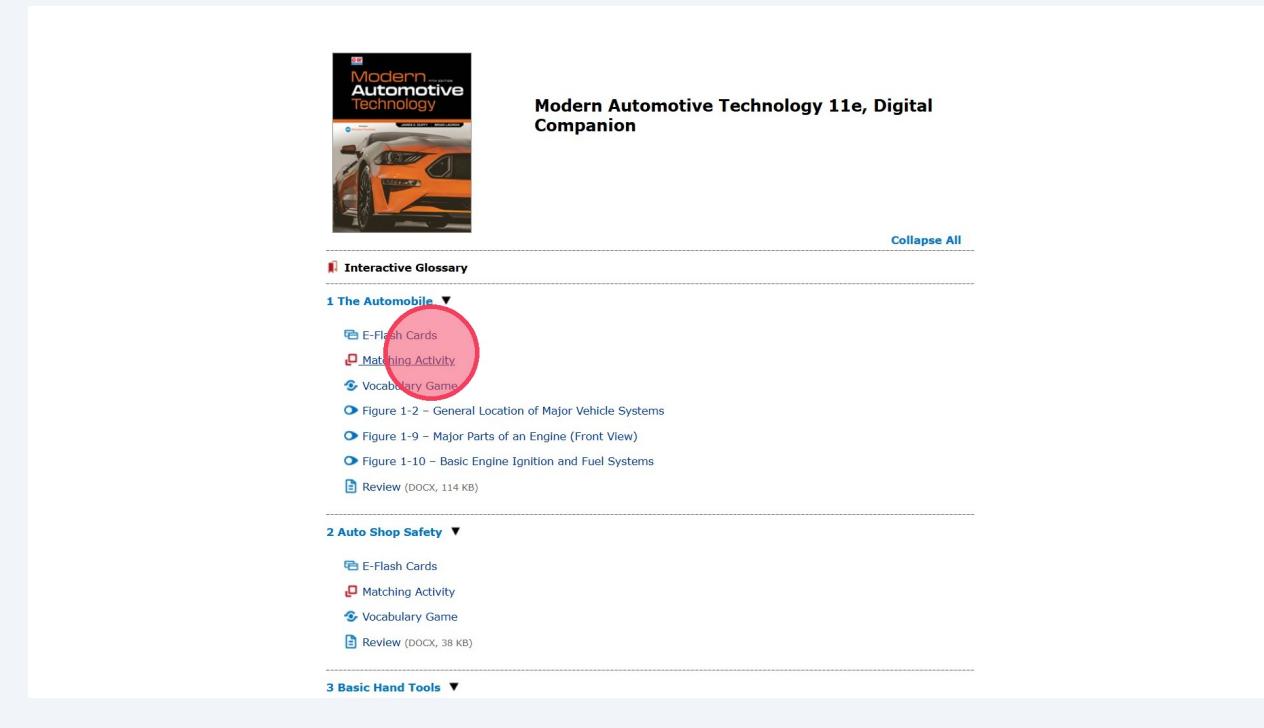
11

Lastly, you may select **Reset Card Stack** when you are ready to go back to the Default settings.



12

The next self-assessment activity you'll find in each chapter is the Matching Activity. Select the **Matching Activity** link to learn more.



The screenshot shows the 'Interactive Glossary' section of the 'Modern Automotive Technology 11e, Digital Companion' website. The page title is 'Modern Automotive Technology 11e, Digital Companion'. Below the title is a thumbnail image of the book cover. A red circle highlights the 'Matching Activity' link under the 'The Automobile' category. Other links in the category include 'E-Flash Cards', 'Vocabulary Game', 'Figure 1-2 – General Location of Major Vehicle Systems', 'Figure 1-9 – Major Parts of an Engine (Front View)', 'Figure 1-10 – Basic Engine Ignition and Fuel Systems', and 'Review (DOCX, 114 KB)'. Below this category is another section titled '2 Auto Shop Safety' with similar links. At the bottom of the page is a section titled '3 Basic Hand Tools'.

13

Enter a few letters to give it a try and **Check Answers** by selecting the blue button at the bottom of the activity.

**1: MATCHING ACTIVITY**

Match the term with the correct definition.

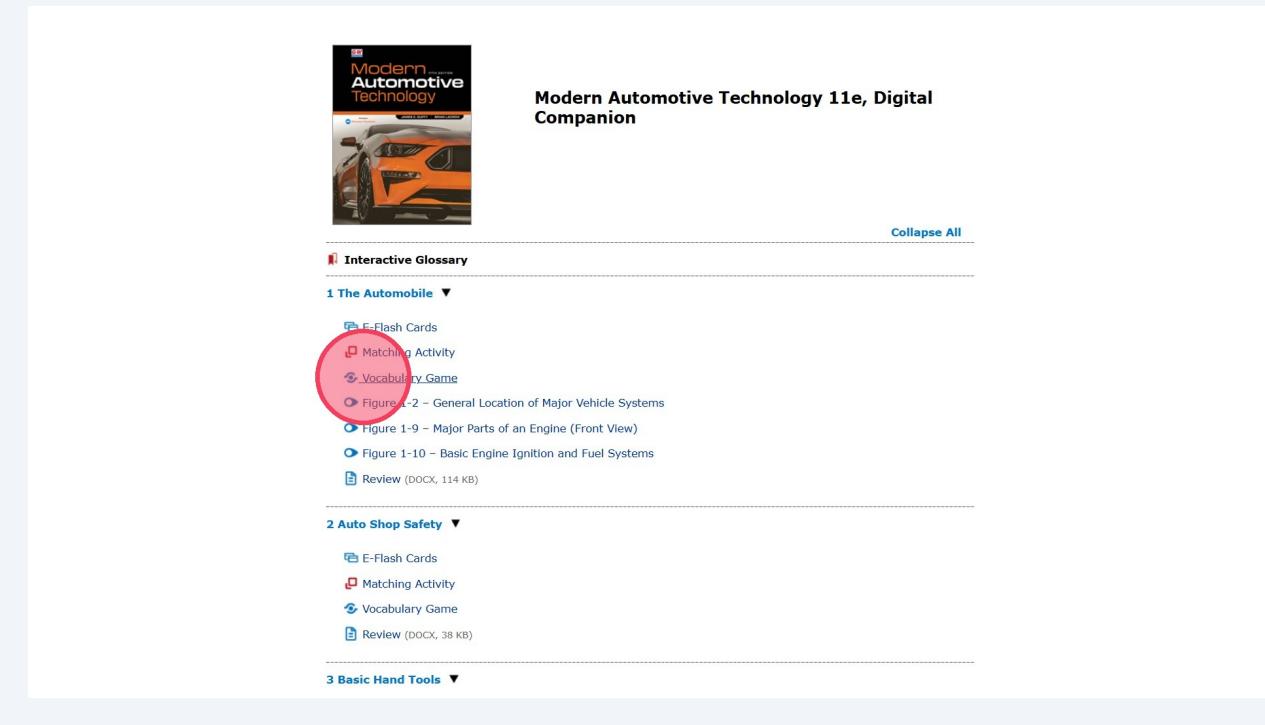
- a** assembly
- b** body
- c** brake system
- d** engine
- e** exhaust system
- f** fuel efficiency
- g** lighting system
- h** multicylinder engine
- i** part
- j** rear-wheel drive (RWD)
- k** steering system
- l** system
- m** track width
- n** vehicle height
- o** vehicle wheelbase

- A. The Environmental Protection Agency (EPA) numerical test rating for the distance a vehicle can travel on one gallon of fuel.
- B. A set of fitted parts designed to complete a specific task.
- C. The distance between the centerlines of the two wheels on the same axle (right and left front wheels or left and right rear wheels).
- D. A group of related parts and assemblies designed to work together to perform a specific function.
- E. A group of components and assemblies that work together to produce friction to slow and/or stop a vehicle.
- F. A group of components and assemblies that quiet and route the engine's combustion waste gases through metal tubing to the rear of a vehicle.
- G. The distance from the ground to the highest point on a vehicle roofline.
- H. A vehicle configuration in which the drive wheels are located on the back axle of the vehicle, with the engine positioned at the front of the vehicle.
- I. The most basic type of removable item on a vehicle, meaning that it cannot be further disassembled. It is also referred to as a component.
- J. A group of components and assemblies that let the driver change the direction of the vehicle by turning the wheels left or right.
- K. A paneled structure constructed of steel, aluminum, fiberglass, plastic, and/or composite materials that forms the outside of a vehicle.
- L. An engine that has more than one piston and cylinder.
- M. A machine that converts energy into useful mechanical motion.
- N. A group of interior and exterior components and assemblies that provide illumination inside and outside of a vehicle.
- O. The distance from the vertical centerline of the front wheels to the vertical centerline of the rear wheels.

**Check Answers**

14

The last self-assessment activity you'll find in each chapter is the **Vocabulary Game**. Select the link to practice this activity.



Modern Automotive Technology 11e, Digital Companion

[Collapse All](#)

**Interactive Glossary**

**1 The Automobile ▾**

- [E-Flash Cards](#)
- [Matching Activity](#)
- [Vocabulary Game](#)**
- [Figure 1-2 – General Location of Major Vehicle Systems](#)
- [Figure 1-9 – Major Parts of an Engine \(Front View\)](#)
- [Figure 1-10 – Basic Engine Ignition and Fuel Systems](#)
- [Review \(DOCX, 114 KB\)](#)

**2 Auto Shop Safety ▾**

- [E-Flash Cards](#)
- [Matching Activity](#)
- [Vocabulary Game](#)
- [Review \(DOCX, 38 KB\)](#)

**3 Basic Hand Tools ▾**

15

Select a point value

**1: Vocabulary Game**

Select a point value. Choose the term that matches the definition.

100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400

**100**

16 Select the answer you believe is correct

**1: Vocabulary Game**

Select a point value. Choose the term that matches the definition.

100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400

**Definition:** A term with its origin derived from Greek and French words, which when combined mean "self moving." Modern versions merge many facets of science, technology, engineering, and math in an efficient, safe, and reliable means of transportation.

- fuel system
- air-fuel ratio
- crossover utility vehicle (XUV)
- automobile

**Check Answer**

17 Select **Check Answer** to reveal the correct answer.

**1: vocabulary Game**

Select a point value. Choose the term that matches the definition.

Score: -300

100	100	100	100
200	200	200	200
300	300	<b>✗ 300-</b>	300
400	400	400	400

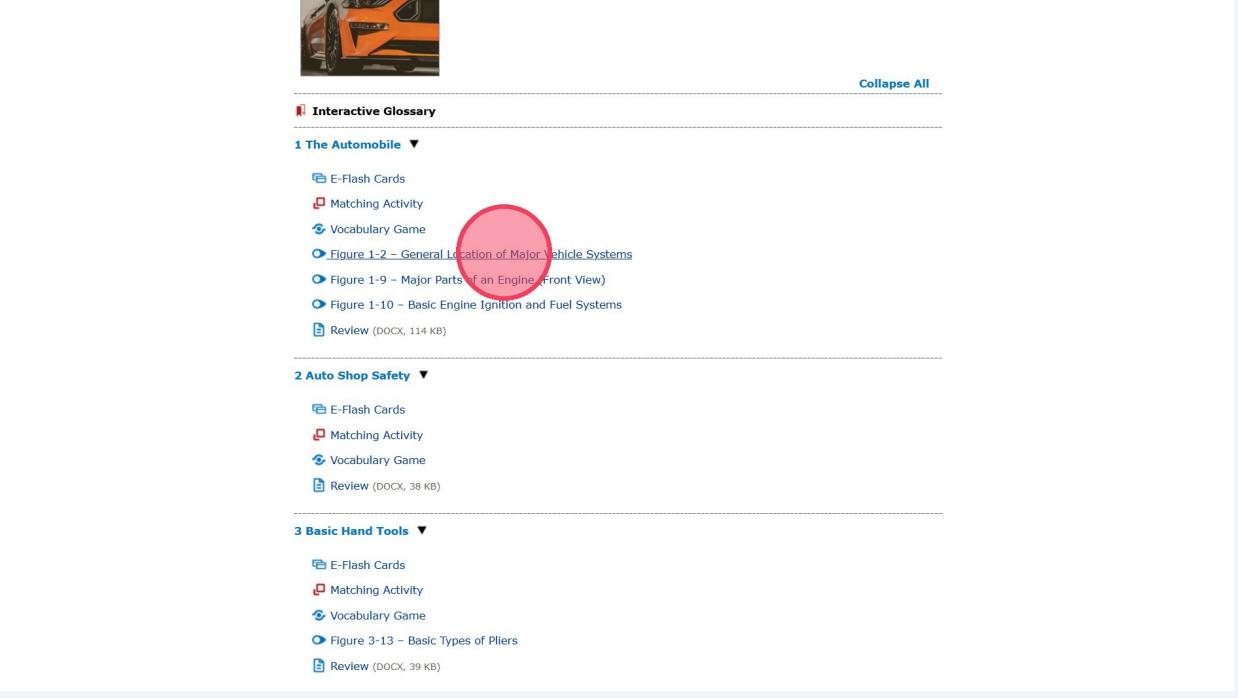
**Definition:** A term with its origin derived from Greek and French words, which when combined mean "self moving." Modern versions merge many facets of science, technology, engineering, and math in an efficient, safe, and reliable means of transportation.

- fuel system
- ✗ air-fuel ratio**
- crossover utility vehicle (XUV)
- automobile

**Check Answer**

18

Some chapters come with other Interactive Activities including Identification Activities. Select a link that has "Figure" in the name to learn more.

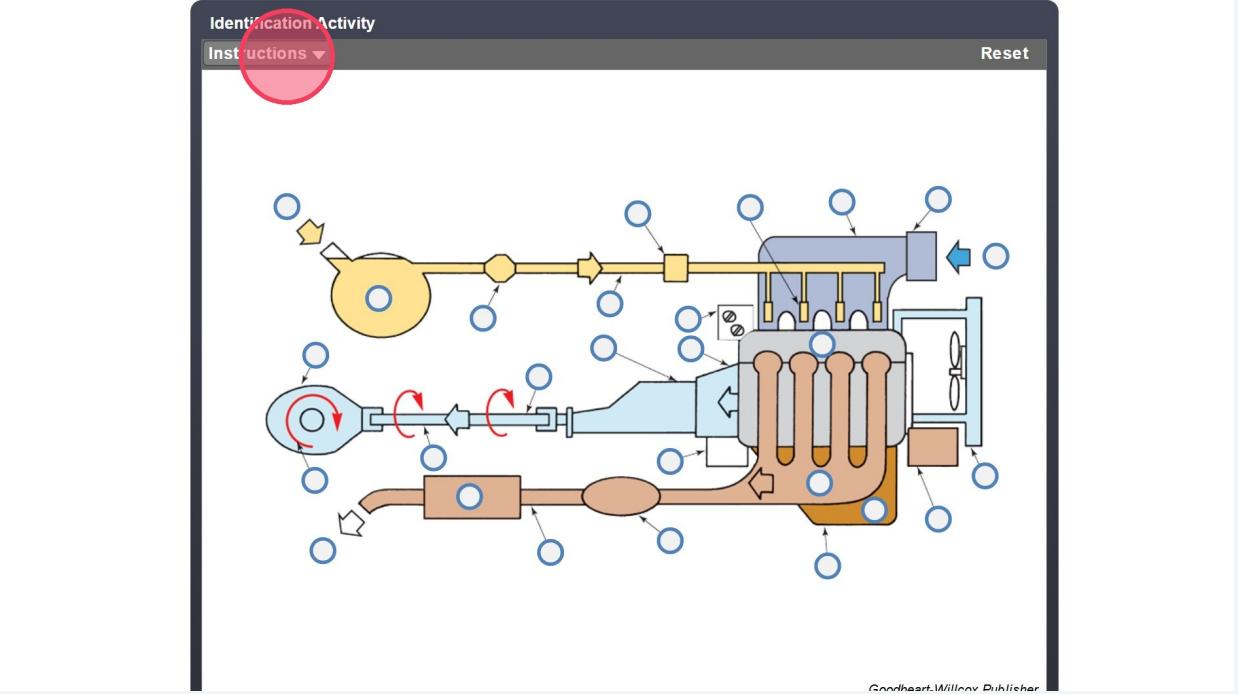


The screenshot shows a section of an interactive glossary for 'The Automobile'. At the top is a thumbnail image of an orange and black car. Below it is a 'Collapse All' button. The main content is organized into sections with dropdown menus:

- 1 The Automobile ▾**
  - E-Flash Cards
  - Matching Activity
  - Vocabulary Game
  - Figure 1-2 – General Location of Major Vehicle Systems
  - Figure 1-9 – Major Parts of an Engine, Front View
  - Figure 1-10 – Basic Engine Ignition and Fuel Systems
  - Review (DOCX, 114 KB)
- 2 Auto Shop Safety ▾**
  - E-Flash Cards
  - Matching Activity
  - Vocabulary Game
  - Review (DOCX, 38 KB)
- 3 Basic Hand Tools ▾**
  - E-Flash Cards
  - Matching Activity
  - Vocabulary Game
  - Figure 3-13 – Basic Types of Pliers
  - Review (DOCX, 39 KB)

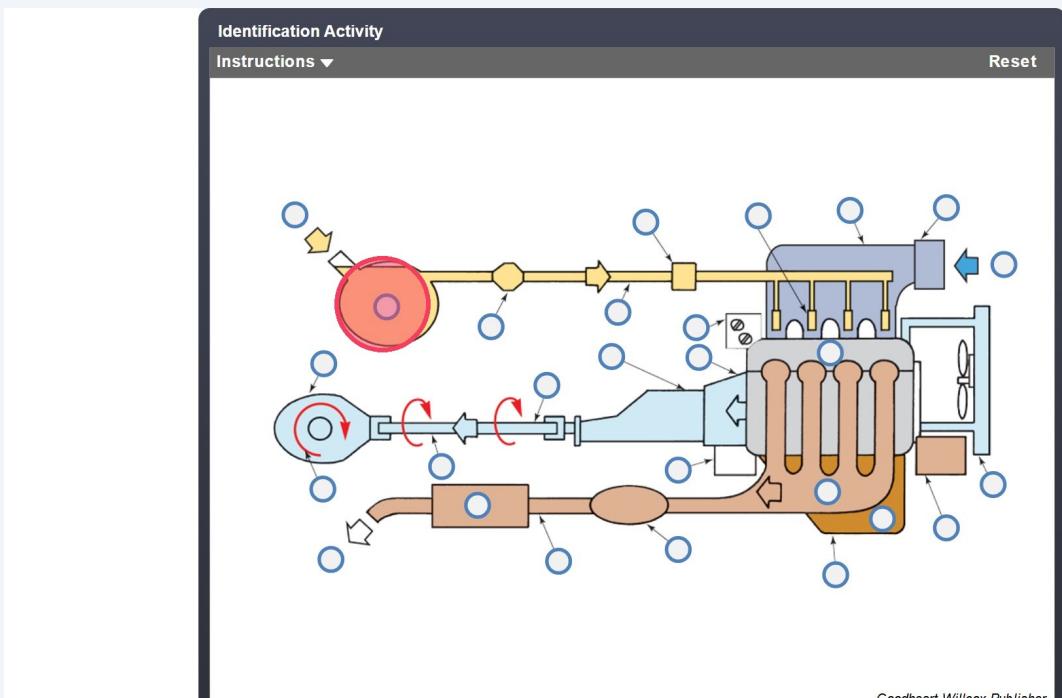
19

You may read the instructions

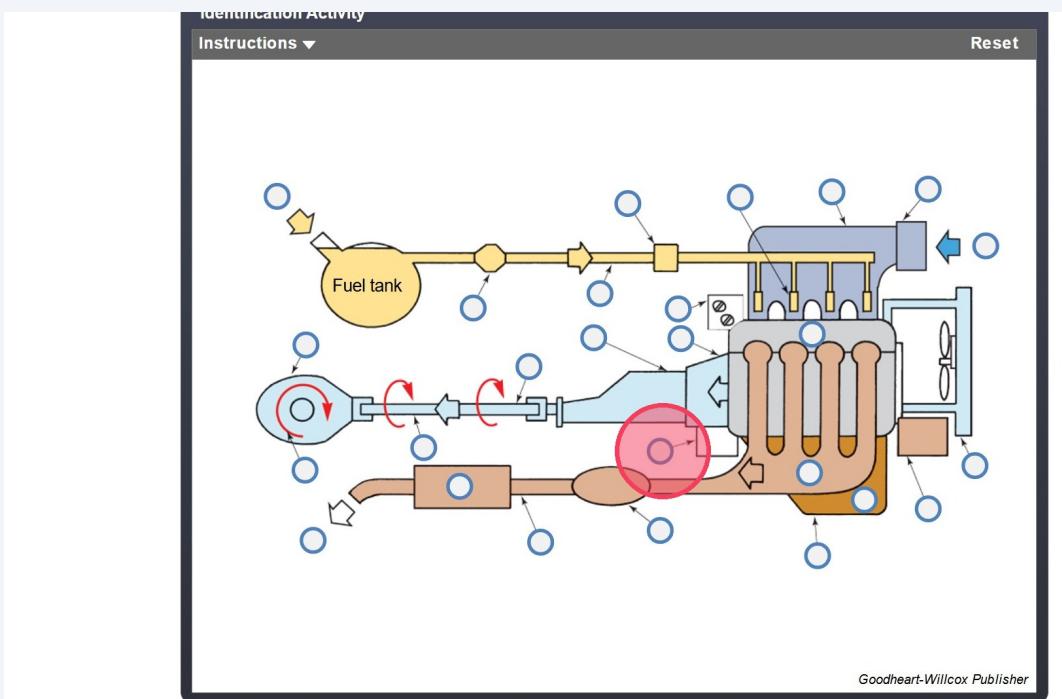


The screenshot shows an identification activity for an engine diagram. At the top is a 'Identification Activity' header and a 'Instructions ▾' button, which is circled in red. To the right is a 'Reset' button. The main area contains a detailed cross-section diagram of an engine. Various components are highlighted with blue circles, and arrows point from these circles to specific parts of the engine, such as the intake manifold, cylinder, and valves. The diagram is set against a dark background.

20 Then select a button to learn that specific part.

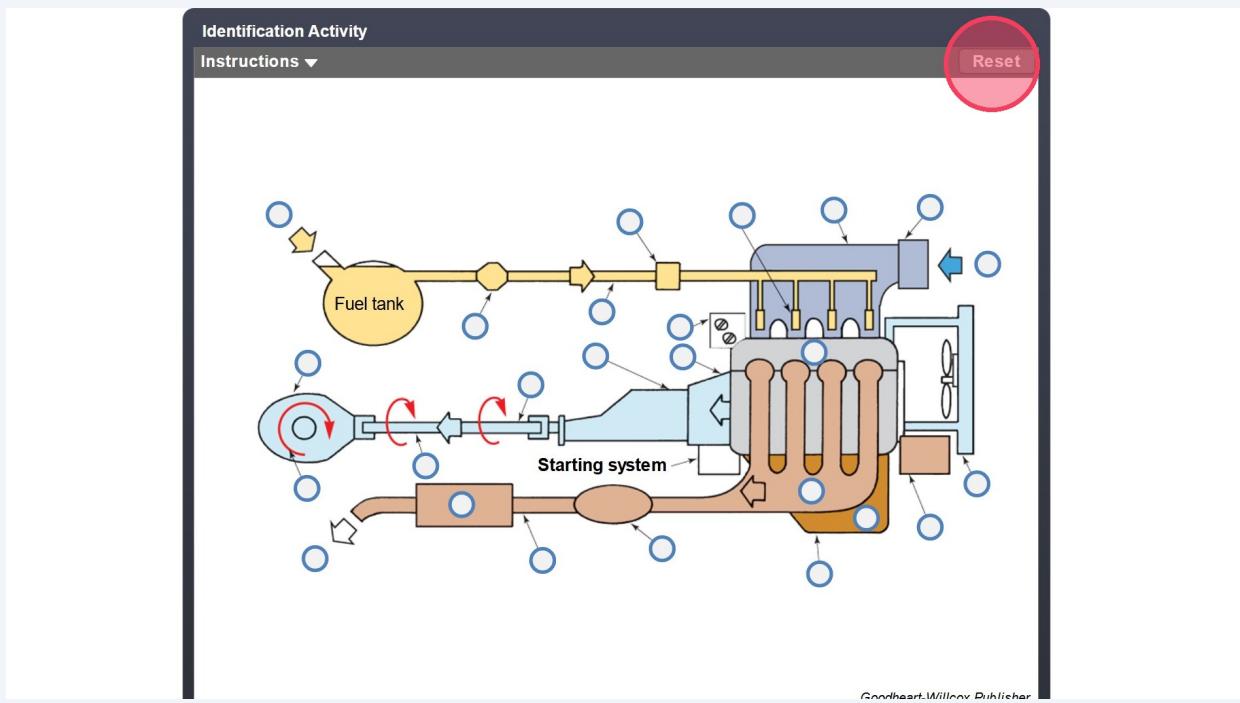


21 You may continue selecting buttons to reveal each term.



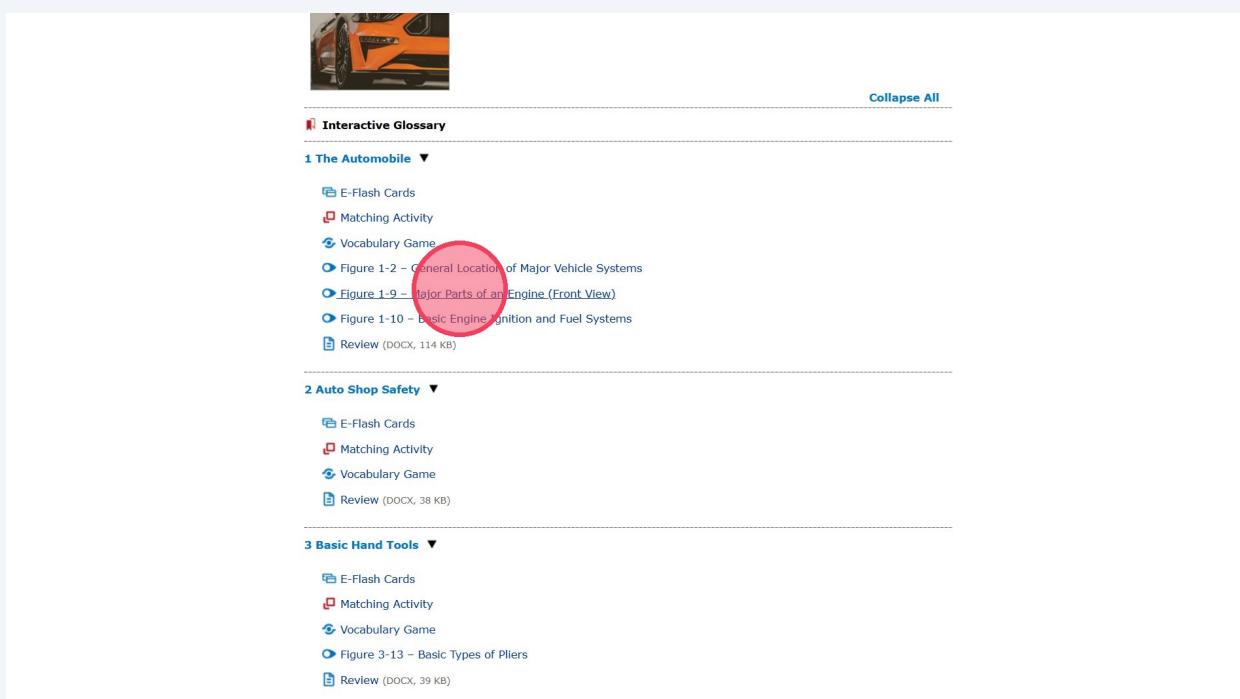
22

If you'd like to start the activity again, you may select **Reset** in the upper right of the activity.



23

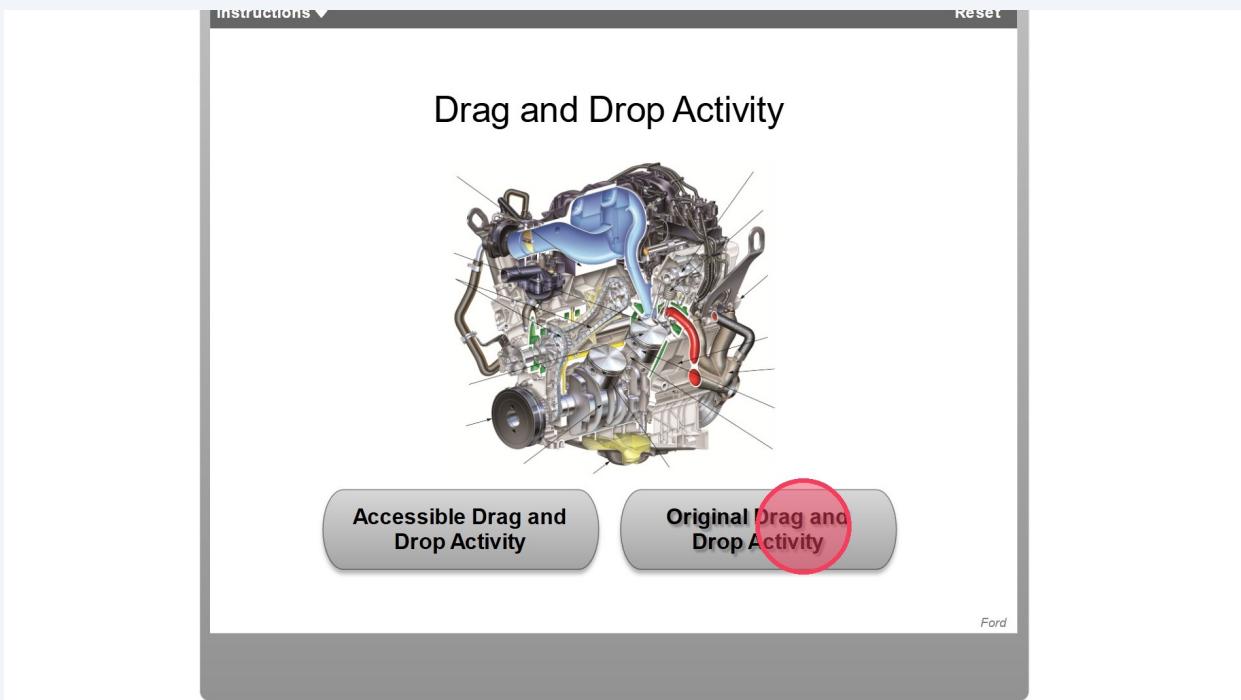
Another type of Interactive Activity you'll find is called a **Drag and Drop Activity**.



The image shows a screenshot of an 'Interactive Glossary' for an automobile. At the top, there is a small image of a car. Below it is a list of categories and their associated activities. The first category is '1 The Automobile ▾', which includes links for 'E-Flash Cards', 'Matching Activity', 'Vocabulary Game', 'Figure 1-2 - General Location of Major Vehicle Systems', 'Figure 1-9 - Major Parts of an Engine (Front View)' (this link is highlighted with a red circle), and 'Figure 1-10 - Basic Engine Ignition and Fuel Systems'. The second category is '2 Auto Shop Safety ▾', and the third is '3 Basic Hand Tools ▾'. Each category has links for 'E-Flash Cards', 'Matching Activity', 'Vocabulary Game', and 'Review (DOCX, 38 KB)'. The entire screenshot is framed by a light gray border.

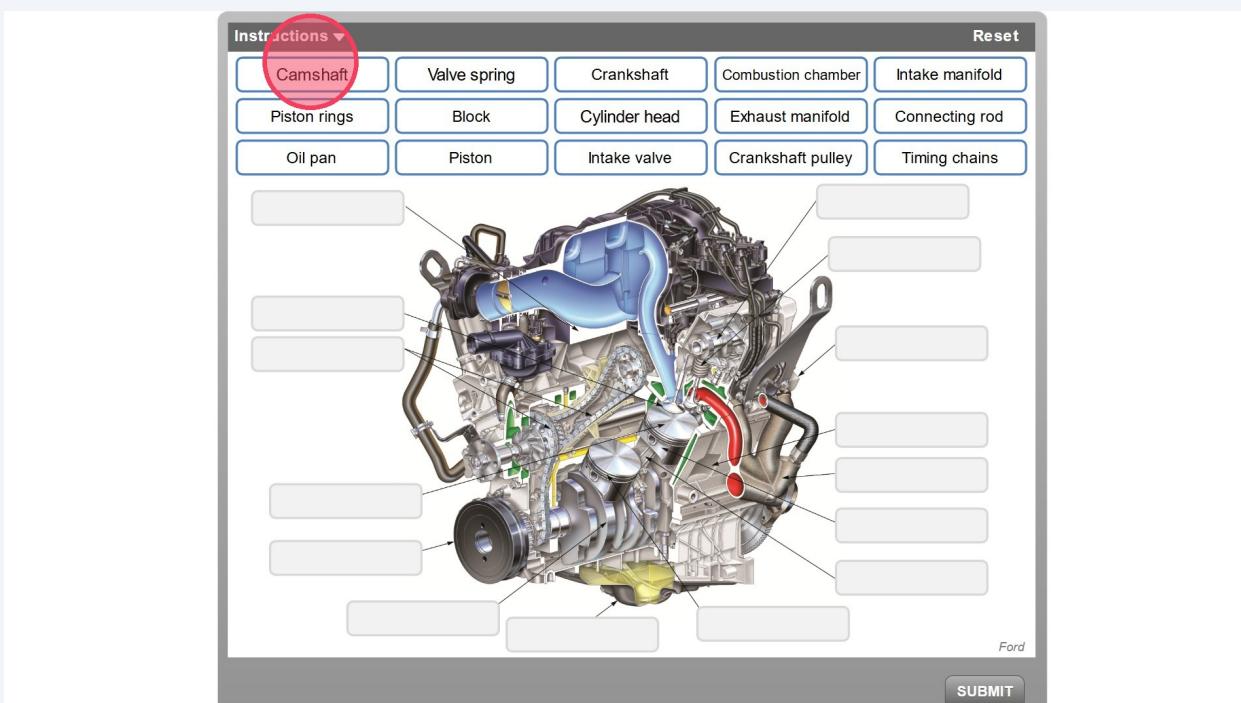
24

Users may select the Original Drag and Drop Activity or an Accessible version.



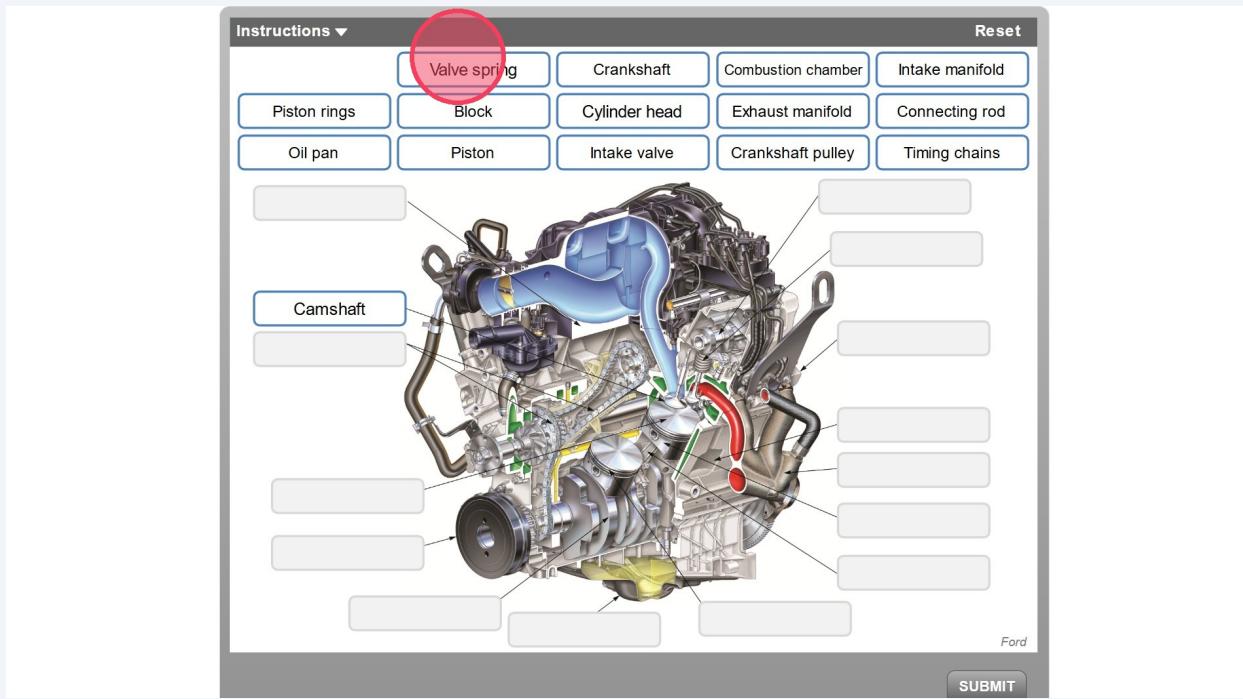
25

Select a term and drag it to its respective location on the figure shown.



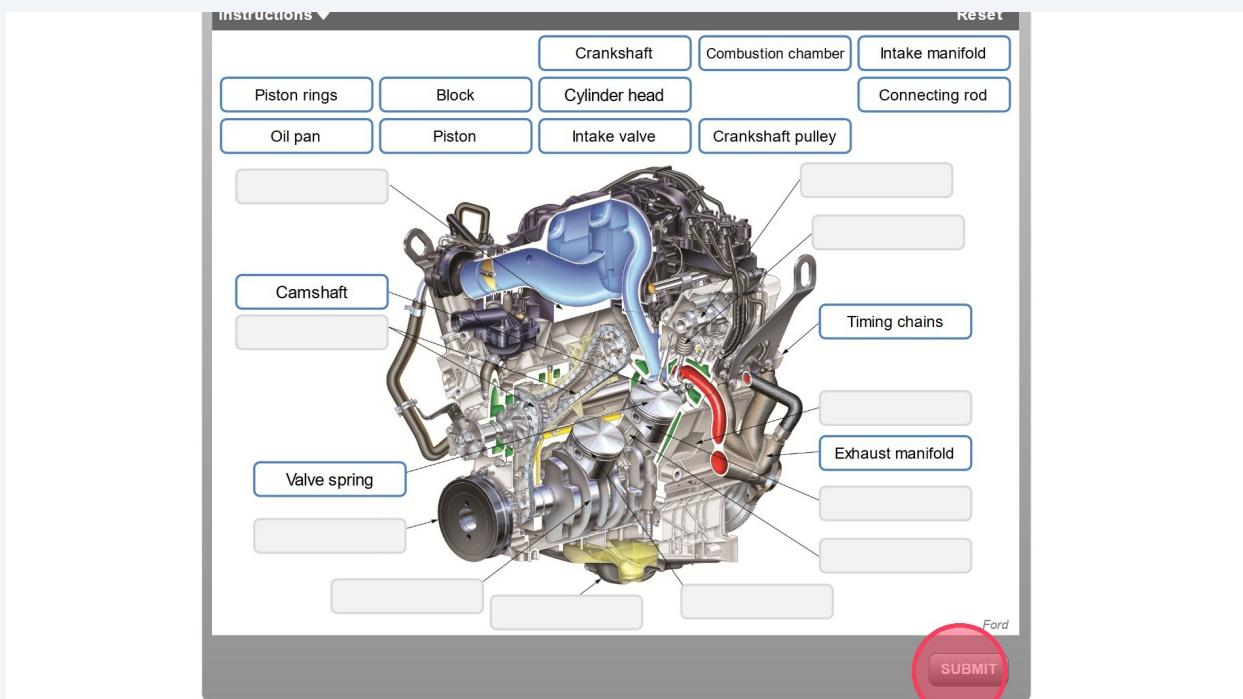
26

Repeat this process until all terms have been moved to the appropriate part of the figure.



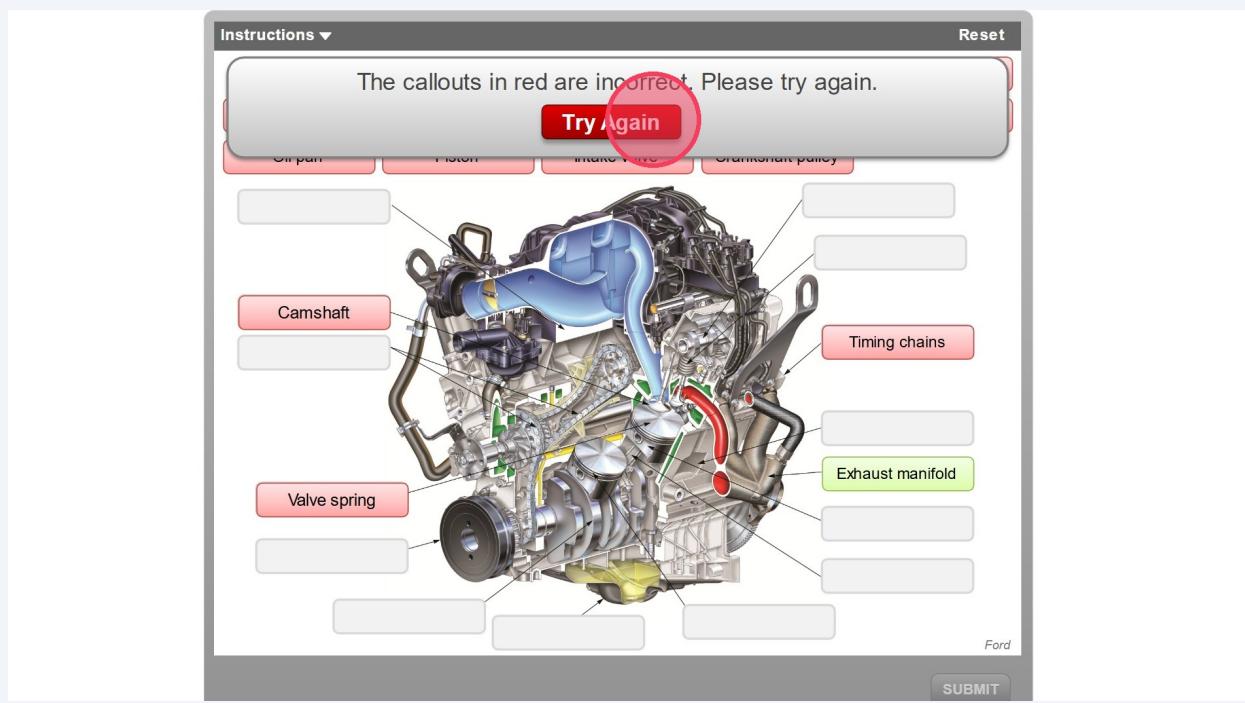
27

Once you are ready to check your work, select the **Submit** button on the bottom right of the figure.



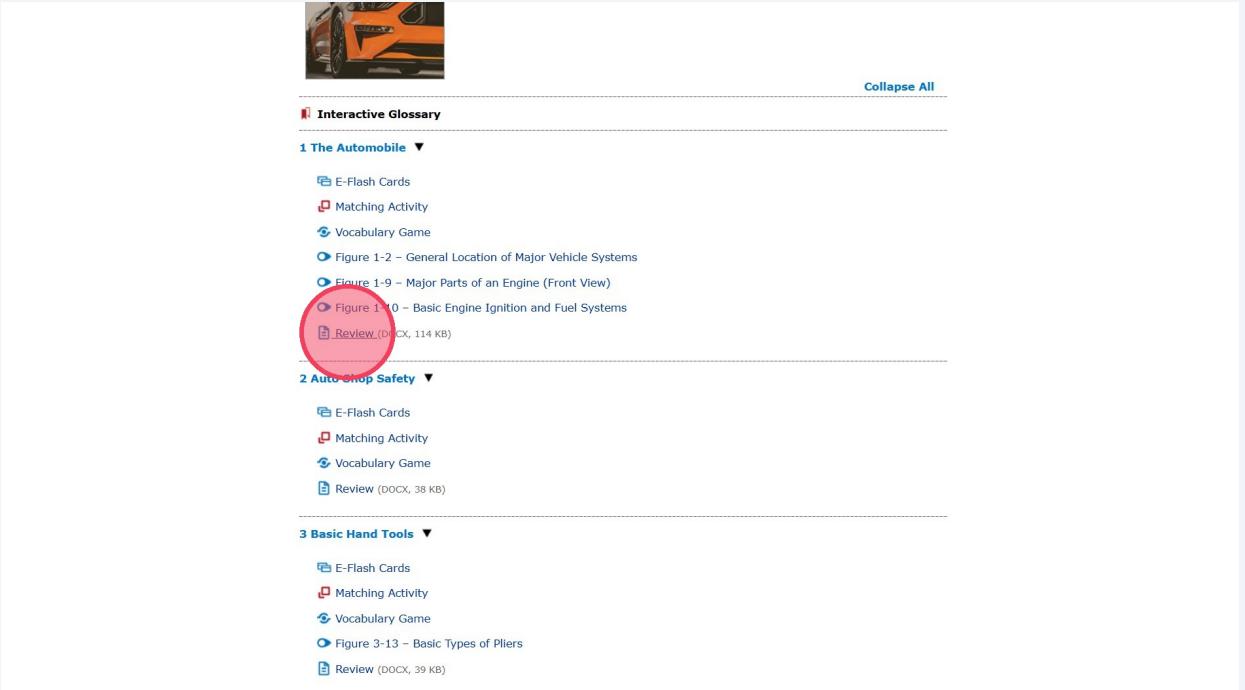
28

You'll notice the callouts in red are incorrect while the terms in green are correct. You may Try Again or select Reset.



29

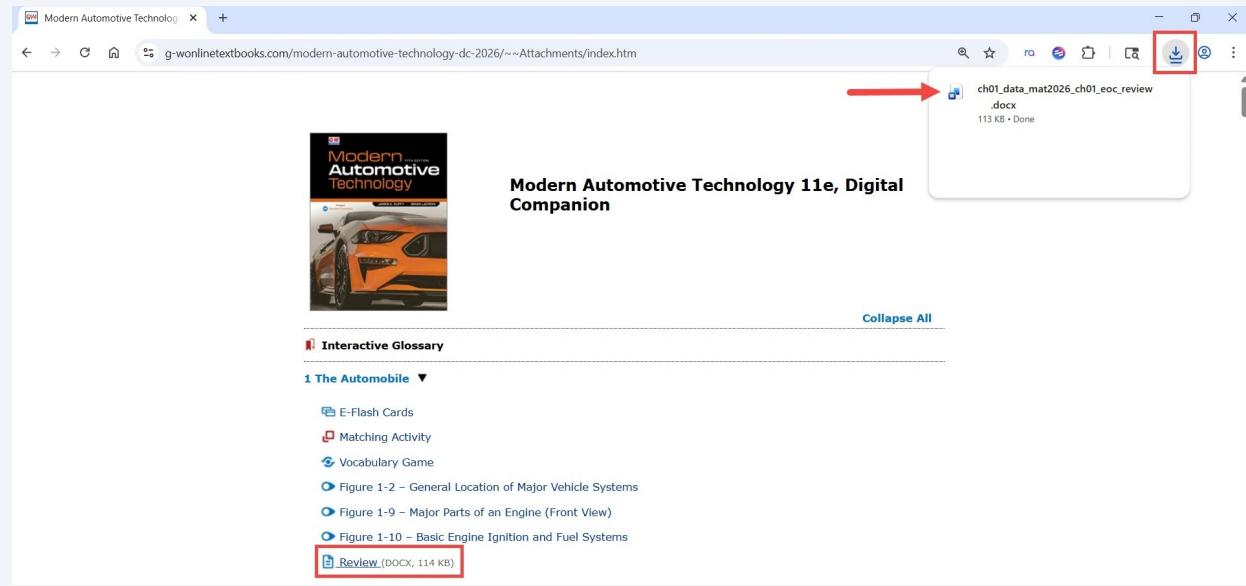
The last activity you'll find in each chapter of the Digital Companion is the **Review** assignments.



The image shows a screenshot of the Digital Companion interface. At the top, there is a small thumbnail of a car. Below it, a 'Collapse All' button is visible. The main content area is titled 'Interactive Glossary' and contains three sections: '1 The Automobile', '2 Auto Shop Safety', and '3 Basic Hand Tools'. Each section has a list of activities: E-Flash Cards, Matching Activity, Vocabulary Game, and a 'Review' document. The 'Review' document in the '1 The Automobile' section is circled in red, indicating it is the correct assignment. The 'Review' document in the other sections is not circled.

30

Once the Review link has been selected, the docx file will automatically download to your **Downloads** folder or other default location depending on your device.



31

Once you find the downloaded file, you may open it to view its contents and either print it or assign to your students digitally in your school's platform.

The screenshot shows a Microsoft Word document titled "Modern Automotive Technology 11e: Chapter 1 Review". The document is a review for Chapter 1, specifically on the automobile. It includes fields for Name, Date, and Class, and a section titled "Chapter 1: The Automobile" with a "Know and Understand" section. The "Know and Understand" section contains three questions. The first question asks about an automotive system, with options A, B, C, and D. The second question asks about parts typically not included in a vehicle's chassis, with options A, B, C, and D. The third question is a fill-in-the-blank about body construction. The Microsoft Word ribbon is visible at the top, showing tabs like Home, Insert, Draw, Design, Layout, References, Mailings, Review, View, Help, and Acrobat. The ribbon also includes various font and paragraph styles, as well as a search bar and a "Create a PDF" button.

Modern Automotive Technology 11e: Chapter 1 Review

Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

**Chapter 1: The Automobile**

**Know and Understand**

*Answer the following questions using the information provided in this chapter.*

1. What is an automotive system? (1.1)
  - A. A strong metal structure to which assemblies and parts are mounted.
  - B. A set of fitted parts that performs a specific task.
  - C. A group of related components and assemblies that performs a specific function.
  - D. All are correct.

Answer:
2. Which parts are typically *not* included when referencing a vehicle's chassis? (1.1)
  - A. Suspension system.
  - B. Powertrain.
  - C. Body structure.
  - D. Steering system.

Answer:
3. In \_\_\_\_\_ construction, multiple metal body panels are welded together to form the vehicle's body and frame. (1.2)