

# Welcome to The Palm Springs Air Museum



*The Palm Springs Air Museum - no matter how often you visit, there is always something new and exciting to experience.*

This guide is filled with fun, informative activities for the whole family. It is designed to give you an understanding of a crucial period in American history. We are dedicated to **preserve** the unique aircraft of World War II, **educate** future generations by teaching the history of World War II and **honor** the veterans who have protected our democracy.

Our three climate controlled hangars include one of the world's largest collections of flying World War II airplanes. Also, the museum has computer flight simulators and an extensive library. It's an awesome walk through history that has visitors returning for more.

We recommend you schedule a minimum of two hours for your visit to the museum. Before you begin, we suggest you review the Highlights of Your Tour featured on the next page. Select some of the "highlights" to look for during your visit. If you are a novice airplane enthusiast, check out "How to Read an Airplane" and follow that with the "Types of Planes at the Palm Springs Air Museum" and "Who's Who and What's What." By the time you finish these, you'll know enough about the museum to impress even the most serious aviators. Keep on "flying" through the guide and you'll find many more activities and lots of information about our airplanes and World War II. After your visit, we encourage you to have fun with the activities in this guide. They have been designed to help you and your family better understand the exhibits you have seen.

Teachers may use the guide either as a unit based on the museum or as a source for individual lessons and enrichment projects independent of the museum. To schedule a group tour of the museum, contact our Youth Education Program Director at (760) 778-6262, Extension 231. During your group tour, each child will wear a "bio-sketch" of a key individual featured in the museum. At the end of your tour, each child will receive a bookmark with our website and a FREE admission pass for the child if he/she brings at least one adult on a return visit to the museum. We invite you to come to the Palm Springs Air Museum prior to your class trip in order to better plan your students' time here. A complimentary teacher ticket is available by bringing this guide with you and presenting it at the gift shop prior to your class trip. Refer to the last page of this guide for information about our Educator's Membership.



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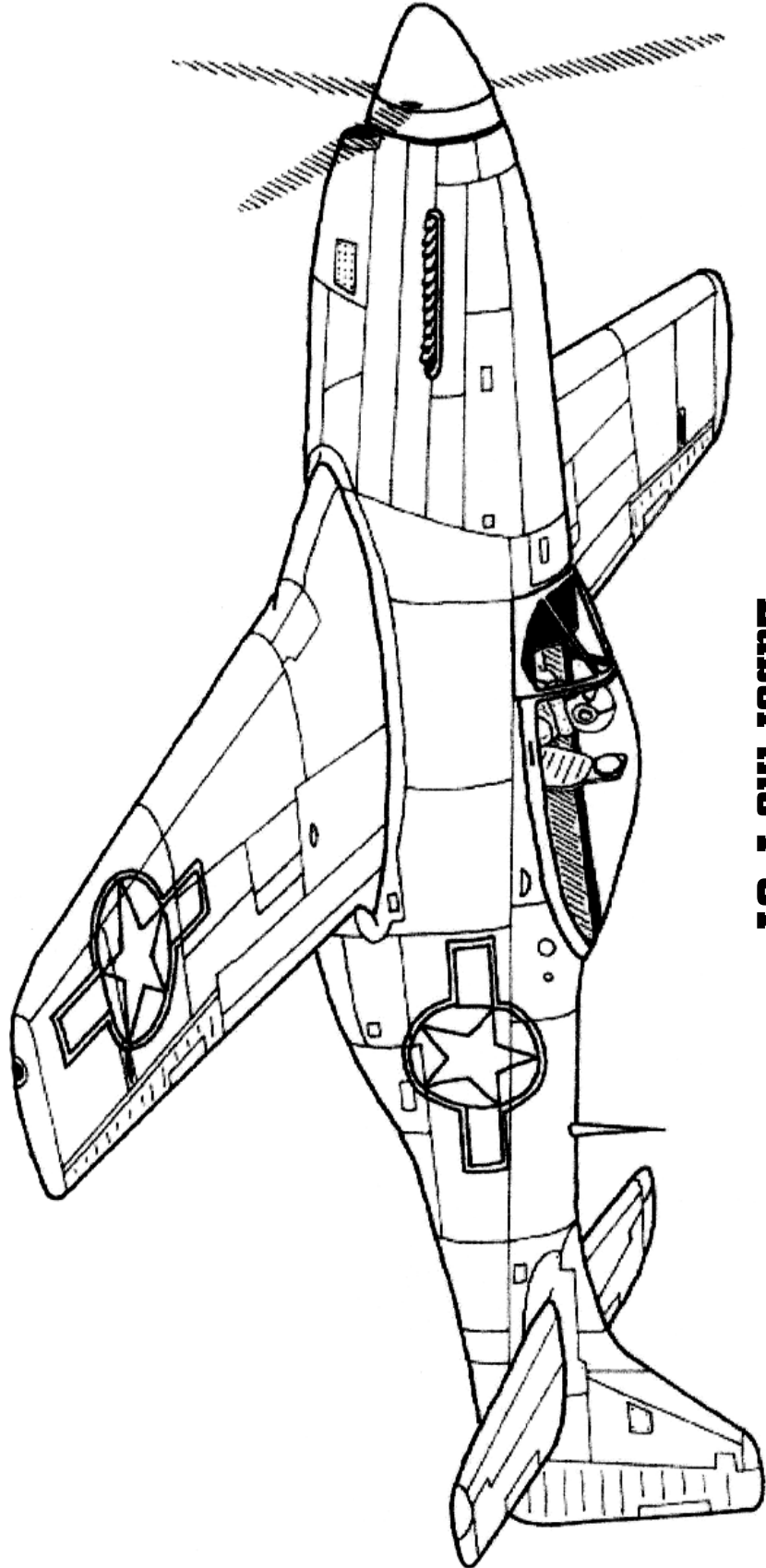
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# Label the P-51



- propeller
- fuselage
- wings
- cockpit
- ailerons
- flaps
- vertical stabilizer
- rudder
- horizontal stabilizer
- elevators

Write Your Name \_\_\_\_\_









**Heavy bombers** are the giant four engine planes that can carry 6,000-20,000 pounds of bombs. This plane is a **Boeing B-17 Flying Fortress**. Boeing was the manufacturer and the B stood for bomber. The B-17 had a crew of 10 men including a pilot, co-pilot, navigator, flight engineer, bombardier, radio operator, ball-turret gunner, two waist gunners and a tail gunner. The B-17s flew in squadrons of many planes and had an effective range (how far an airplane can fly with a reasonable payload of passengers, bombs and some reserve fuel) of 2,000 miles. They flew far into enemy territory to bomb factories, large railroad centers, oilfields and power plants. These long-range bombers needed fighter escorts for protection. They had to fight off enemy fighter planes and anti-aircraft fire from the ground.



**Patrol Boats.** This aircraft is a **Consolidated PB4Y Catalina**. PB stood for Patrol Boat and Y stood for Consolidated, the manufacturer. The PB4Y Catalina is amphibious which means it can take-off and land from both runways and water. It was one of the few aircraft that was capable of rescuing downed airmen or sailors at sea. Flying at a cruising speed of 117 miles per hour, this flying boat had twin-engines mounted high on the wing to avoid getting splashed by sea water. The

large wing gave the Catalina great lift to carry the aircraft in the air much like the large wing on a glider. Also, the wing carries all the fuel necessary for long range patrols which could exceed 10 hours in time and 2,500 miles without refueling.

**Trainers.** This aircraft is the **Boeing/Stearman Kaydet PT-17 (N2S Navy)**. The Kaydet was a two-seater biplane introduced by the Stearman Aircraft Division of Boeing. Its simple, rugged construction made it ideal as a trainer for novice pilots during World War II. After the war, their slow, low-flying capabilities made them well-suited for crop dusting and spraying.



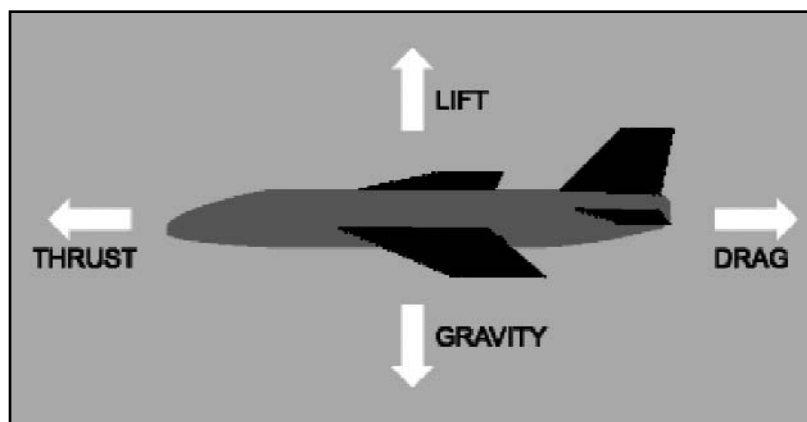




## How Does an Airplane Fly?

For any airplane to fly, you must lift the weight of the airplane itself, the fuel, the passengers, and the cargo. There are four forces needed for flight: lift, gravity, thrust and drag. The wings generate most of the **lift** to hold the plane in the air. **Gravity** is a force that causes any object in the air to come back to the ground. With airplanes, gravity works against lift by pulling the airplane toward the ground. To generate lift, the airplane must be pushed or **thrust** forward through the air. Without thrust, planes can not produce lift. Most of the airplanes at our museum use propellers for thrust. Jet planes have engines located under the wing which provide the thrust to push the airplane forward through the air. The air resists the forward motion in the form of **drag**.

There are many possible aircraft configurations (shapes), but all configurations must provide for the four forces needed for flight. Lift and thrust help to keep an airplane flying. Gravity and drag work against it. We can't do anything to change gravity, but we can try to minimize drag and increase lift and thrust.



To control and maneuver the aircraft, smaller wings are located at the tail of the plane. The tail usually has a fixed horizontal piece (called the **horizontal stabilizer**) and a fixed vertical piece (called the **vertical stabilizer**). The stabilizers' job is to provide stability for the aircraft, to keep it flying straight. The vertical stabilizer keeps the nose of the plane from swinging from side to side, while the horizontal stabilizer prevents an up-and-down motion of the nose.

At the rear of the wings and stabilizers are small moving sections that are attached to the fixed sections by hinges. The hinged part of the vertical stabilizer is called the **rudder**. The hinged part of the horizontal stabilizer is called the **elevator**; it is used to deflect the tail up and down.

The hinged part of the wing is called the **aileron**; it is used to roll the wings from side to side. The wings have additional hinged, rear sections near the body that are called **flaps**. Flaps are deployed downward on takeoff and landing to increase the amount of lift produced by the wing. The next time you fly on an airplane, notice how the wing shape changes during takeoff and landing.







## Rate the Aircraft

This chart lists the specifications of eight World War II fighter aircraft, two from each of four nations. Rate each of the aircraft on a scale of 1 (least effective) to 5 (most effective). Write the rating in the box to the left of each aircraft. Base your rating on the effectiveness of the fighter aircraft on the following criteria:

- supporting ground forces
- escorting bombers attacking enemy targets
- aerial combat with enemy fighters, "dog fighting"
- protecting naval vessels
- attacking enemy land and naval targets

Rating	Aircraft	Type	Crew	Maximum Speed in MPH	Maximum Range in Miles	Armaments (MG=Machine Gun) (C=Cannon)
	Junkers Ju87 "Stuka" (German)	Dive Bomber	2	255 374 Dive Speed	925	3 MG (2 Forward, 1 Rear)
	Messerschmitt Bf 109 (German)	Fighter	1	350	528	4 MG 1 C in nose
	Supermarine Spitfire (British)	Fighter	1	378	1,140	8 MG
	Hawker Hurricane (British)	Fighter	1	340	600	8 MG
	Mitsubishi A6M Zero (Japanese)	Fighter	1	331	1,200	2 MG 2 C
	Nakajima Ki-84 (Japanese)	Fighter	1	392	1,339	2 MG 2 C
	North American P-51D Mustang (American)	Fighter	1	437	2,080 with Drop Tanks 1,306 without Tanks	6 MG
	Grumman F4F Wildcat (American)	Fighter	1	318	770	6 MG

*Note: Specifications for the planes vary according to the model. The specifications in this table were typical near the beginning of World War II.*









## An Introduction to World War II

On December 7, 1941, the alarm "AIR RAID PEARL HARBOR... This is no drill," came without warning for the U.S. armed forces serving on Oahu in Hawaii. During that surprise attack, Japanese bombs killed about 2,400 Americans and damaged or destroyed 21 ships and 347 aircraft. The next day, the United States declared war on Japan and entered World War II. Even as smoke still billowed out of *U.S.S. Arizona* and the other ships of the devastated Pacific Fleet, a stunned nation rallied. In response, nearly sixteen million Americans served in the military to avenge Pearl Harbor. For almost four years of sacrifice and commitment, American Airmen, Coast Guardsmen, Marines, Merchant Marines, Sailors, and Soldiers served their country during World War II.



*The USS Arizona seen burning after the attack by the Japanese at Pearl Harbor, Hawaii, the morning of December 7, 1941.*

Since 1939, many countries had been fighting World War II. On one side were the **Allies**, made up of Britain, France, and later the Soviet Union. On the other side were the **Axis** Powers, made up of Germany, Italy, and Japan. The United States had stayed out of the war until the Japanese attack on Pearl Harbor, after which they joined the Allies. Eventually, most of the world became involved in the conflict. The war was basically fought on two fronts, Europe and the Pacific. This corresponds to two of the hangars at the Palm Springs Air Museum. Air power played a prominent part in the war.

Many citizens were called upon to do extraordinary things after the attack on Pearl Harbor. Visitors to the Palm Springs Air Museum will meet the men of the 101st Airborne who jumped into Normandy on D-Day and fought the bitter Battle of the Bulge at Bastogne, Belgium. They will fly with the Air Corps 99th Fighter Squadron and 332d Fighter Group. Now better known as the Tuskegee Airman, these African American pilots would distinguish themselves over North Africa, Sicily, and Italy flying more than 3,000 missions in Europe and destroying almost 300 enemy planes.

Several veterans would find their military experiences of use when they later became President of the United States and the Commander-in-Chief. General Dwight D. Eisenhower, Harvard educated John F. Kennedy, Texas congressman Lyndon Johnson, California lawyer Richard Nixon, University of Michigan athlete turned attorney Gerald Ford, Illinois born actor Ronald Reagan, and eighteen year old recent high school graduate George H. W. Bush were among the many patriotic Americans who supported the war effort.

In July 1942, President Franklin Roosevelt signed into law authorization for women's units in all branches of the armed services. The Navy bill established the Navy Women's Reserve (WAVES). The Navy specified that women would be restricted "to the performance of shore duty within the continental United States only and shall not be assigned to duty on board vessels of the Navy or in combat aircraft."



The same law authorized the Coast Guard and the Marine Corps to establish women's units. The Coast Guard set up a women's reserve called the SPARS, an acronym using letters of the Coast Guard motto, Semper Paratus-Always Ready. The Leadership in the Marine Corps opposed setting up a women's reserve and held back for several months. With the high number of Marine casualties in the Pacific war, the Marine Commandant relented and the Marine Corps Women's Reserve (MCWR) was established.

Over 150,000 women served as Women's Army Corps (WAC) offering vital assistance to the Army and Army Air Force. One of the first duties was to serve at Aircraft Warning Service stations. Almost half their volunteers served with the Army Air Force and worked as aircraft mechanics. Some WACs volunteered as flight nurses, a strenuous job that could take them into range of enemy fire.

The Women's Auxiliary Ferrying Squadron (WAFS) delivered aircraft from factories to air training bases. What began as flying light aircraft soon developed into ferrying fighter planes, bombers, and large air transport carriers. Famed pilot Jackie Lee Cochran created the Women's Flying Training Detachment (WFTD) to meet a critical need for more trained pilots to fly the increasing number of planes being produced in American factories. In addition to needing more pilots to ferry aircraft to bases around the world, more women pilots were needed to tow targets and test fly new aircraft. In 1943 the WAFS and WFTD merged to form the Women Airforce Service Pilots (WASP). Despite vocal opposition to training women pilots, the program had marked success. The WASP made important contributions to World War II and enhanced careers for women aviators.



*Jacqueline Lee Cochran, pioneer American aviator and celebrated race pilot*





- Step 7:** Player One calls out 9 more shots the same way - a total of 10 shots. A ship is sunk only when all of its squares have been hit. A player who scores a hit, therefore, should concentrate the next shots in the same area until the ship is sunk. When a player's ship is sunk, the player announces, "It's a hit and one of my destroyers has been sunk!"
- Step 8:** After Player One has fired 10 shots, it's Player Two's turn to attack with 10 shots.
- Step 9:** Players continue taking turns. But, once a player has lost a ship, he or she fires two fewer shots in the next round for each ship lost. If a player has lost two ships, for example, his or her attack will consist of only 6 shots. If three ships have been lost, his or her next attack will consist of only 4 shots.
- Step 10:** The battle is over when one player has sunk all of his or her opponent's ships.

Ships participating at the Battle of the Coral Sea were the carriers *Lexington* and *Yorktown* along with their respective task force.

Both the *Lexington* and the *Yorktown* were attacked by Japanese planes. The *Yorktown* was hit once by a bomb but it failed to impede the ability of the carrier to function. The *Lexington* was hit by torpedoes and bombs - one of which hit a supply of ammunition. At 12:47, the carrier was shaken by a huge internal explosion when fuel vapors were ignited. A series of other explosions occurred and by 15:00 'Lady Lex' was beyond help. At 16:30, the crew prepared to abandon ship. Various ships were called up to assist in the evacuation which was disciplined and orderly - even the ship's dog was brought off. The ship's commander was the last to leave. The destroyer *Phelps* was ordered to finish off the *Lexington*, which it duly did with five torpedoes. The *Lexington* sank at 20:00.

Task Force 17	Task Force 11
<b>Yorktown (carrier)</b>	<b>Lexington (carrier)</b>
Astoria (heavy cruiser)	Minneapolis (heavy cruiser)
Chester (heavy cruiser)	New Orleans (heavy cruiser)
Portland (heavy cruiser)	
Hammann (destroyer)	Phelps (destroyer)
Anderson (destroyer)	Dewey (destroyer )
Russell (destroyer)	Farragut (destroyer )
Walke (destroyer)	Aylwin (destroyer)
Morris (destroyer)	Monaghan (destroyer )
Sims (destroyer)	

Douglas Dauntless dive-bombers, Douglas TBD Devastator torpedo planes, and the Grumman F4F Wildcats made up the U.S. air strike force during the battle. The Japanese lost 43 planes to the Americans 33. The battle is seen as an American victory simply because it stopped Japan from doing what it had set out to do - capture Port Moresby and isolate Australia. In this sense, it was a strategic victory for America.

The Battle of Midway was to do the Japanese far more damage. Considered one of the most decisive battles of World War II, the Battle of Midway effectively destroyed Japan's naval strength when the Americans destroyed four of its aircraft carriers. Japan's navy never recovered from its mauling at Midway and it was on the defensive after this battle.

Read more about these battles at

[http://www.historylearningsite.co.uk/battle\\_of\\_coral\\_sea.htm](http://www.historylearningsite.co.uk/battle_of_coral_sea.htm) and

[http://www.historylearningsite.co.uk/battle\\_of\\_midway.htm](http://www.historylearningsite.co.uk/battle_of_midway.htm)

## Biographical Sketches



*Claire Lee Chennault, Military aviator who commanded the "Flying Tigers" during World War II*

As you tour the Palm Springs Air Museum, you will be introduced to a number of prominent military leaders and some lesser known, though no less distinguished men and women, who were recognized for leadership during this critical period in American history.

Some of the many individuals featured in the exhibit include:

- |                             |                               |
|-----------------------------|-------------------------------|
| <b>Douglas Bader</b>        | <b>Joe Foss</b>               |
| <b>Ira Bong</b>             | <b>"Bull" Halsey</b>          |
| <b>George H.W. Bush</b>     | <b>Douglas MacArthur</b>      |
| <b>"Pappy" Boyington</b>    | <b>Anthony McAuliffe</b>      |
| <b>Claire Lee Chennault</b> | <b>Thomas B. McGuire, Jr.</b> |
| <b>Jacqueline Cochran</b>   | <b>Butch O'Hare</b>           |
| <b>Benjamin Davis</b>       | <b>George Patton</b>          |
| <b>Jimmy Doolittle</b>      | <b>Robert J. Pond</b>         |
| <b>Dwight D. Eisenhower</b> | <b>Franklin D. Roosevelt</b>  |
| <b>Gerald Ford</b>          |                               |

### Write a Biographical Sketch

After your tour of the Palm Springs Air Museum, write a biographical sketch or a "newspaper article" about one of the individuals featured in the exhibit. Use specific historical incidents as examples to reinforce the idea that the person was an outstanding leader and worthy of praise. Extend your research by searching through primary and secondary sources.



*James Harold "Jimmy" Doolittle, World War II Congressional Medal of Honor Recipient*



*Richard "Dick" Ira Bong, World War II Ace of Aces who shot down 40 Japanese Planes in the Pacific, Medal of Honor recipient*



*Edward Henry "Butch" O'Hare, First U.S. Navy Flying Ace, Medal of Honor Recipient, Wildcat Fighter Pilot*



## Living History Kiosk

Look for the **Living History Kiosk** located in the Donald and Peggy Cravens Hangar - European Theater of Operations. It includes short video bio-sketches on many docents at the Palm Springs Air Museum and on local citizens whose experiences have been documented through the Veterans History Project of The Library of Congress.

**Tony Acevedo\*** (Medic at Battle of the Bulge; POW)

**Dick Brown** (Chief Radioman, Yorktown)

**Davy Crockett** (Pearl Harbor, B-17 Navigator)

**Don Cravens** (D-Day, Liberation of Paris, Combat Photographer)

**Faber Cripps** (B-17 Repairs)

**Dave Devries** (Los Banos POW)

**Vivian Eddy\*** (Aviator)

**Glenn A. Glover** (Rescue of POWs at Los Banos)

**Sandy Hirschhalt** (Omaha, Eisenhower's Staff)

**Leonard Hanson** (B-17; POW)

**Harry Hutsell** (B-17, Guadalcanal, Tarawa, Mt. Suribachi)

**Rob Kranze** (Lexington)

**Harvey Levine\*** (Yorktown)

*\*Videos not yet available*

**Aaron Liepe** (P-40 pilot in China)

**Mary Lou Neale** (Aviator)

**Mike Pappas** (Shot down on 14th mission; POW)

**Dick Parker** (Aviator; Shot down 7 times)

**Evelyn Paterson** (8 years old; Escaped Singapore)

**Fitz Payne** (FRF Fighter Pilot at Guadalcanal; Ace)

**Frank Pease** (Flew 30 missions 8th Air Force)

**Jack Robbins** (Shot down; German POW)

**Dick Rossi** (P-40 Flying Tigers; Ace)

**Russell Snell** (Normandy on D-Day)

**Joe Strauss** (Flew 35 missions)

**Fritz Young** (Quartermaster on the submarine Cobia)

**Marne Wilson** (Flew 35 missions; Often lead pilot)

The Palm Springs Air Museum Library is located on the 2nd floor of the museum. Additional biographical information is available for each person listed above.

Many books, videos and original magazines of the World War II era are also located in the library of the Palm Springs Air Museum.



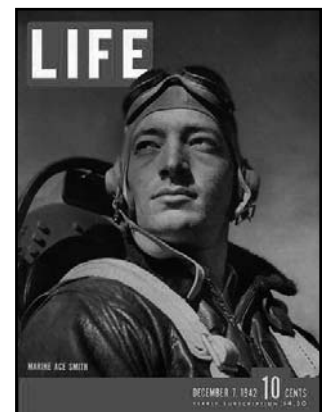
While on the 2nd floor of the museum, test your skills with one of the flight simulators. Docents are available to help you learn the basics of flying your own plane.



When you visit the Palm Springs Air Museum, you will find docents whom you can interview about their experiences in the armed services. Many of the volunteers are combat veterans who are willing to share their experiences and sacrifices for the education of future generations.



Teachers: This would be a good time to make arrangements for the Palm Springs Air Museum's Traveling Trunk, "Life of a Soldier" to visit your classroom.



## **Living History – Conduct an Oral History with a Member of the Armed Services**

By asking people questions, you can learn a lot of information. To learn more about the role of citizens in the armed services, interview a member of the U.S. armed services who is currently serving or who has served in the past.

### **Before the interview, do some research.**

What are the different branches of the armed services? What is meant by the term "rank"? What ranks are found in the different services? What is the difference between commissioned officers and enlisted personnel?

### **Plan some sample questions, such as:**

- In which branch of the armed services did you serve?
- What dates did you serve? Where did you serve?
- What was your job?
- Why did you join the armed services?
- What were some of your experiences in the armed services?

**Here are some suggestions for planning, conducting and reporting on your interview:**

#### **Before the Interview:**

1. Write, telephone or email the person.
2. Tell him or her who you are and why you would like an interview.
3. Ask the person to set a time and place to meet.
4. Make a complete list of questions to ask during your interview. Try to think of questions that will lead to interesting answers.

#### **During the Interview:**

1. Listen carefully. Make eye contact. Look interested. Do not interrupt the person.
2. Take notes as you talk with the person. If you want to use an audio recorder or video recording, ask the person first.
3. Read back or review with the person all the answers you have recorded. In that way, you make sure your answers are accurate and acceptable to your guest.

#### **After the Interview:**

1. Before you leave, thank the person.
2. Follow-up by writing a thank-you note or making a call.
3. Summarize the major ideas from your interview.

## Military Dog Tags

As early as the American Civil War, name tags came into use so that the wounded or killed could be identified. By the outbreak of World War II the practice had been adopted for all members of the U.S. armed forces. Nicknamed "dog tags" because of their resemblance to similar dog IDs, the version issued to American military personnel came in pairs. In the event of death, one of the tags is buried with the individual and the other goes with the paperwork of the deceased. Typically, the standard military dog tags contain all the information to identify a soldier and provide emergency information.



Follow this format to create your own dog tag:

**1st line, Last Name** \_\_\_\_\_

**On the 2nd line, First Name/Middle Initial** \_\_\_\_\_

**On the 3rd line, Service Number (Social Security Number)** \_\_\_\_\_

**On the 4th line, Bloodtype** \_\_\_\_\_

**On the 5th line, Religious Preference** \_\_\_\_\_



Dog Tags are for sale in the lobby of the Palm Springs Air Museum. You don't have to follow the above format. You can put what you want on your tag. Here's what you do:

- Step 1:** Select a "tag" type, a silencer (black, red, blue or clear), and a chain (brass or silver).
- Step 2:** Complete the Dog Tag form and take it to the Gift Shop. (You can engrave up to 14 characters per line and up to 5 lines of text.)
- Step 3:** Pay for your Dog Tag.
- Step 4:** Before you leave the museum, stop at the Gift Shop to pick up your tag.

The Department of the Army has developed and is currently testing a new tag, which will hold 80% of a soldier's medical and dental data on a microchip. Known as the Individually Carried Record (ICR), it is not intended to replace the present tag, but rather to augment it as part of the "paperless battlefield" concept. This development is in keeping with the Army's dedication to positively identify each and every fallen soldier. The yellow TacMedCS being tested by the Marines uses radio frequency technology, electronics and global-positioning systems to pin-point wounded.

# Uncle Sam Wants You

## "I Want You" Recruitment Poster



Article 1, Section 8 of the United States Constitution lists the specific powers of Congress, including the power to declare war and to establish and maintain an army and navy. Just because the U.S. Constitution declares Congress has the power to raise an army or navy does not mean enough people will join. The U.S. Military is always recruiting or looking for new members to join.

Look at a copy of the poster, *I Want You*. The poster is available on <http://images.google.com/images> Type in Uncle Sam Poster. Poster size versions are available at Army Recruitment Centers and at the Palm Springs Air Museum Gift Shop.

What is the meaning of the letters U.S.?

The letters U.S. are an abbreviation for *United States*.

What is the meaning of the letters U.S.A.?

U.S.A. is an abbreviation for the *United States of America*.

1. What are the main colors used in the poster? \_\_\_\_\_
2. What symbols (if any) are used in the poster? \_\_\_\_\_
3. Are the messages in the poster primarily visual, verbal, or both? \_\_\_\_\_
4. Who do you think is the intended audience for the poster? \_\_\_\_\_
5. What does the Government hope the audience will do? \_\_\_\_\_
6. The most effective posters use symbols that are unusual, simple, and direct.

Is this an effective poster? \_\_\_\_\_

The artist of the *I Want You* poster was James Montgomery Flagg. Produced for the Army Recruiting Bureau, Flagg used himself as a model for the illustration. It was used on World War I recruitment posters and revived during World War II. The poster has been described as the best known of any era.

## Patriotic Symbols of the United States

The image of Uncle Sam plays a major role in the *I Want You* poster. But who is Uncle Sam?

### History of Samuel Wilson

During the War of 1812, Samuel Wilson lived in the village of Troy, New York. He was popularly known in the area as Uncle Sam. From time to time, Sam supplied barrels of beef to the soldiers, stamping the barrels U.S. The soldiers from Troy called the beef "Uncle Sam's" implying that it was furnished by Samuel Wilson. The other soldiers, thinking that the term was applied to the letters U.S. standing for the United States, began using the name "Uncle Sam" figuratively for the United States. This interpretation was picked up promptly by other soldiers who began to call everything belonging to the government, "Uncle Sam's." The term, as applied to the United States, quickly sprang into popular favor and the weekly periodicals soon began to sketch a caricature likeness by adding the long white beard and high hat, a typical representation of our government.

By an Act of the 87th Congress of the United States, the following Resolution was adopted on September 15, 1961: "Resolved ... that the Congress salutes "Uncle Sam" Wilson of Troy, New York, as the progenitor (originator) of America's National symbol of "Uncle Sam."

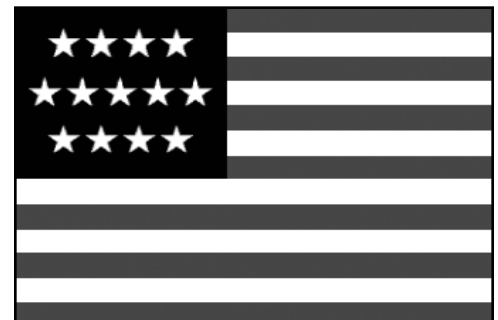
### Other Patriotic Symbols

Other than Uncle Sam, what are some patriotic symbols of the United States? Some of these symbols include the American Flag, the Bald Eagle, the Liberty Bell, and the Statue of Liberty. These symbols create a sense of community among our citizens.

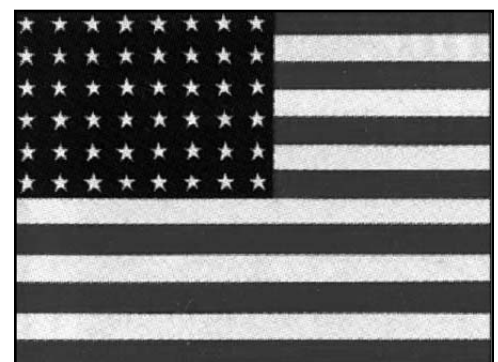
### History of the United States Flag

On June 14, 1777, Congress passed a resolution stating "that the flag of the United States be thirteen stripes, alternate red and white, that the union be thirteen stars, white in a blue field, representing a new constellation."

The 13 stars and stripes symbolized the original 13 colonies. The plan was to add a stripe and a star each time a new state joined the union. If this plan were followed, the flag would quickly have become much too large. Congress voted in 1818 to keep the 13 stripes in recognition of the original 13 states and to add a star for every new state thereafter. Our flag now has 50 stars.



*The U.S. flag from 1777 to 1779.*



*The U.S. flag from 1912 to 1959.*

**Why were the colors red, white and blue selected?**

Each color is supposed to stand for a different ideal or characteristic. Historians do not agree on what the colors are supposed to mean, but some of their suggestions are:

<b>RED</b>	<b>WHITE</b>	<b>BLUE</b>
courage	purity	loyalty
blood	cleanliness	freedom
sacrifice	peace	justice
zeal	hope	truth

**Create a Flag**

Make a flag for your family or for your classroom. Choose the colors of the flag and orally explain or write an explanation for what each color represents. Design symbols that represent ideals you believe are important.

**The *"Pledge of Allegiance"***

A pledge is a *promise*. The *Pledge of Allegiance* is a promise that people make to the United States of America. Allegiance means loyalty so when we pledge allegiance to the flag of the United States, we promise to support and be loyal to our country. The American flag is a symbol that stands for the United States of America. People place their hands over their hearts when they recite the pledge because they are making a promise.

There have been several versions of the *Pledge of Allegiance*. The earliest known version was by an unknown author in the mid-1800's. The present pledge can be traced to the one written in 1892 by Francis Bellamy to celebrate the 400th anniversary of Columbus's voyage to America. It appeared in a children's magazine on September 8, 1892. In 1923, the words "my flag" were replaced with "the flag of the United States of America." In 1954, the U.S. Congress added the words "under God." The current wording of the pledge was established on July 7, 1976 with Public Law 94-344.

***"I pledge allegiance to the flag of the United States of America and to the Republic for which it stands, one Nation under God, indivisible, with liberty and justice for all."***

Note the punctuation. Practice saying the Pledge pausing in the appropriate spots.

**Classroom Pledge or Family Pledge**

Create a pledge for your family or for your classroom. Decide the types of behaviors you expect from members of your class or your family. Decorate the copy of the pledge, and, if desired, dip it in cooking oil to provide a parchment finish.



## Flag Etiquette

- ★ When the Pledge of Allegiance is recited, when the flag is being raised or lowered, or when it is being carried past, we should face the flag, stand at attention, and salute.
- ★ Those in uniform or who have served in the military should give the military salute.
- ★ Men and boys not in uniform salute by removing their hats and holding them over their hearts.
- ★ We should always handle the flag with respect, neither letting it touch the ground, nor leaving it carelessly about.
- ★ Outdoors, the flag should be flown only from sunrise to sunset. However, when a patriotic effect is desired, the flag may be displayed twenty-four hours a day if properly illuminated during the hours of darkness.
- ★ We should never let the flag touch anything beneath it, such as the ground, floor, water, or merchandise.
- ★ We must keep the flag clean and undamaged at all times.
- ★ We must never put lettering, design, drawing, or advertising on the flag.
- ★ We must never use the flag as a decoration to drape tables or walls.
- ★ The flag should not be used for advertising purposes, nor should an advertising sign be fastened to the pole from which the flag is flown.
- ★ We must not use the flag as part of clothing. However, it has become acceptable and customary for athletes, Boy Scouts, employees of certain companies, and others to wear flag patches or replicas of the flag.
- ★ The flag flies at half-mast by presidential proclamation to show respect for important public officials who have died.
- ★ Traditionally the flag should be left free to fly in the breeze, symbolizing a free citizenry.



# How Did the Desert Help Win World War II?

## General George Patton and the Desert Training Center

Why was the Desert Training Center located in the desert? What impact did it have upon the local community?



*General George Patton*

The Coachella Valley, and in fact California, changed forever by playing a part in the winning of World War II. Major General George S. Patton, in 1942, selected a 162,000 square mile area east of Indio to become the **Desert Training Center**. It was in the middle of California's Mojave Desert...a bleak, remote, vast expanse of cactus, scrub and sand. The Center's area was so large that it extended beyond eastern California across the Colorado River and into Nevada and Arizona.

General Patton made his headquarters at Camp Young, near Shavers Summit (now known as Chiriaco Summit). Ten other camps were established within the Desert Training Center. The camps were massive tent cities containing tanks and repair shops, hospitals, aviation facilities and anti-aircraft and field artillery units. Indio was the nearest town to the new army base.

In the years between 1942 and 1944, nearly a million American servicemen were trained for combat readiness at the Desert Training Center (DTC). Training in desert warfare was essential because the American Army fought in North Africa to stop the Axis march toward Egypt and the Suez Canal. The DTC offered endless terrain suitable for armored combat training. The area's elevation ranged from the desert floor to 7,000 feet above sea level. Temperatures ranged from below freezing to 120° in the shade.

The Desert Training Center became the world's largest military installation in both size and population. On April 30, 1944, two years after its inception, the training center was closed by the Army and the camps were abandoned to the desert. But their legacy remains.





## Why was the desert location APPROPRIATE for the Training Center?

The major reasons the Desert Training Center was located nearby were:

1. varied desert terrain
2. availability of water from the Metropolitan Water District's Colorado River Aqueduct
3. availability of electricity for its headquarters, Camp Young, from the Hayfield pumping station
4. proximity to the Southern Pacific railheads in Indio and Coachella that could be used as supply depots
5. lack of a huge population that would be inconvenienced or hurt
6. contours of the land made it possible to conduct 100 mile marches without opposing troops sighting each other

## Life at the Desert Training Center

### **Picture the following scenario:**

You are following a five-mile long convoy of Army vehicles. These include Sherman tanks, jeeps and two and a half ton trucks that carry soldiers and command cars for officers. As the convoy continues, a strong wind from the north fills your eyes with sand. Your eyes are already gritty from the churned-up dust of the vehicles you are following.

As you trudge along, you see thousands of empty acres of wilderness ahead of you. You begin to realize you will have to march as far as you can see in the temperatures of 120 degrees. You have only one quart of water, the amount allowed per man within a six hour period. To prevent heat stroke, you have to suck on salt tablets to prevent dehydration.

You wear your oven-hot steel helmet and carry your rifle that burns like fire from the sun in the cloudless sky. You don't look forward to mealtime because all you have to eat are dried food rations.

At the end of the day, you turn your sleeping bag inside out because you have to check for scorpions, lizards or rattlesnakes before you crawl in quickly and zip the bag up tight to your neck.

After spending days out on maneuvers, what do you think the soldiers would want to do the most when they returned to camp?

Generally, it was a relief to get back to Camp Young, because at the camp they could rest. The *camp* or *base* was a sprawling *tent city* that housed 25,000 men and their equipment; a movie house, a chapel, a hospital, and, several commissaries. Commissaries are government stores where food and other necessary items are available for purchase.







- You are (TENSE) a business owner (ROLE) in Indio, California, witnessing the arrival of the first 2,500 soldiers on leave from Camp Young. As your family members gather around you at the kitchen table (AUDIENCE), recount your tales using the "fortunately, unfortunately" format (FORM).
- You are a political cartoonist (ROLE) for a Palm Springs, California newspaper (AUDIENCE). Design a cartoon (FORM) that illustrates a major event that occurs (TENSE) when the troops from Camp Young come in to town for a night's leave. Include a caption and your signature as the artist.

**Write a Letter to Your Grandchildren**

Take on the role of a grandparent who lived during the World War II era. Write a letter to one of your grandchildren. Your letter should describe vividly the things you did, what you learned, what you enjoyed or disliked, and the meaningful experiences you had during this time in your life. Explain the type of work you did and the hardships you had to overcome. Use an appropriate date for the letter.

**What impact (effect) did the Camp Young's Desert Training Center have on the Coachella Valley?**

Using information from the above activities, complete the following chart.

**Effects of the Desert Training Center on the Coachella Valley**

	<b>Geographic Location</b>	<b>When? (Key Dates)</b>	<b>Why? (Cause)</b>	<b>Impact (Effect)</b>	<b>Key People</b>
Desert Training Center					

## **WRITE about it or TELL about it**

Describe the effect the Desert Training Center had on the Coachella Valley. Write a multiple paragraph composition, OR tell about it in an oral report. Present major ideas and supporting evidence.

### **Your composition should include details about:**

- the area/location of California affected
- dates when the key events occurred
- why the changes occurred (cause)
- the impact of the changes (effect)
- the key people involved

### **If you write about it, be sure to:**

- Open with an introductory paragraph.
- Include a topic sentence at or near the beginning of the first paragraph.
- Include supporting paragraphs with simple facts.
- Conclude with a paragraph that summarizes the points.
- Draw from more than one source of information (speakers, books, newspapers).
- Capitalize proper nouns.
- Indent paragraphs properly.
- Use legible penmanship or demonstrate basic keyboarding skills.

### **If you tell about it, be sure to:**

- Summarize major ideas and supporting evidence.
- Present effective introductions and conclusions that guide and inform the listener's understanding of key ideas.
- Emphasize points to assist the listener/viewer in following the key ideas.
- Use details and examples to explain or clarify information.
- Use appropriate volume, pitch, phrasing, pace and gestures, expressively to communicate meaning.
- Draw from more than one source of information.

# Life on the Home Front

**What is the Home Front?** (For an answer key, refer to the bottom of page 43.)  
Look at a map of the United States, if available.

How many states comprise the United States today? \_\_\_\_\_

How many of these are contiguous? \* \_\_\_\_\_

Which states are not contiguous? \_\_\_\_\_

When did Hawaii enter the Union? \_\_\_\_\_

Was Hawaii considered to be the home front in 1941? Why or why not? \_\_\_\_\_

*\*Contiguous means sharing an edge or a boundary; touching.*

### Response of the Home Front

Enemy planes could not fly far enough to cross the Atlantic or the Pacific Ocean and bomb American cities, but some Japanese submarines did carry airplanes which were launched off the Pacific Coast. Every time the air raid sirens sounded as a test, people took the alert seriously. Nighttime drills were called "blackouts." Everyone had to be careful their home showed no shred of light that might serve as a guide to enemy bombers or silhouette (highlight) our coastal ships against the lights on the shore.

Despite the heroic endeavors of the men and women of the armed services, the war could not have been won without the support of the people on the home front. War required national unity and demanded sacrifices.

What types of sacrifices do you think Americans had to make during World War II?  
It became very important to conserve raw materials that were needed for the armed forces.

What types of raw materials did the government need to win the war? What types of shortages do you think occurred? Put a check next to each item you think might have been rationed, or limited in use, during World War II.

- rubber
- meat
- sugar
- shoes
- fuel
- coffee
- canned goods
- butter and hard cheese







*California at War* is a one-hour documentary on how World War II changed California, and how California changed the war. Created by Ken Burns, this excellent program may be viewed online at <http://www.kcet.org/californiaatwar/>



*We Can Do It!* by J. Howard Miller. Of all the images of working women during World War II, the image of women in factories predominates. War work - uniforms, tools, and lunch pails - were incorporated into the revised image of the ideal woman.

## Women in Industry

As millions of able-bodied men went into military service, new sources of workers entered the job force. During the war, many women went to work outside the home for the first time. They worked in factories, steel mills, shipyards, and offices. They also ran family businesses and farms. Between 1940 and 1944, more than 6 million additional women joined the workforce. Many of them worked in non-traditional factory jobs in the aircraft and shipbuilding industries.

To meet the need for war planes, aviation companies hired more than 200,000 new workers. As in other industries, a large number of the workers in the aviation factories were women. Although the women performed the same work as men in the factories, their wages were not as high as the men's salaries. Men still held most of the supervisory and managerial positions. The women were thought of as temporary substitute workers until the men returned home.



While touring the Palm Springs Air Museum, ask your docent to relate personal experiences of the impact of the war on the home front. View artifacts from the home front located in a display case in the European Hangar.

## Answer Key:

- How many states comprise the United States today?  
(50)
- How many of these are contiguous?  
(48)
- Which states are not contiguous?  
(Alaska and Hawaii)
- When did Hawaii enter the Union?  
(August 21, 1959 as the 50th state)
- Was Hawaii considered to be the home front in 1941? Why or why not?  
(Hawaii was a territory of the United States that maintained a naval base at Pearl Harbor.)



*Longing Won't Bring Him Back Sooner...Get a War Job!* by Lawrence Wilbur, 1944









### Grumman C1A COD

The C-1A "Trader" was developed from the S-2F "Tracker," the highly successful twin engine, carrier-based antisubmarine warfare aircraft. The C-1A was designed to carry 9 passengers and cargo from ship to shore or vice versa. COD stood for Carrier Onboard Delivery. The first C-1A flew in January 1955 and the last of the 87 built was delivered in December 1958.



### Grumman F-14 Tomcat

The Navy's premier shipboard fighter of the post-Vietnam era was made famous in the film *Top Gun*. This non-flying example, loaned by the Navy to Palm Springs Air Museum in December, 1996, was flown in the Gulf War in 1991.



### Grumman F4F Wildcat

The only truly effective carrier-based fighter available in the Pacific Theater at the outset of World War II was the Grumman F4F Wildcat. It fought in the defense of Wake Island where it sunk a destroyer, a submarine and destroyed Japanese aircraft. It was used in the Pacific until 1943 when the F6F came aboard. This aircraft was used in the television mini-series *War and Remembrance*.



### Grumman F6F Hellcat

The Navy's answer to the P-47 Thunderbolt had the power and armament to run down and shred the lightly built Mitsubishi Zero. With a kill ratio of 19 to 1, Hellcat pilots swept the skies of the enemy at the Battle of the Philippine Sea, called the Mariana Turkey Shoot, and elsewhere from 1943 to 1945. Grumman built 12,275 Hellcats.



**Grumman F7F Tigercat**

Developed late in the conflict, this twin-engined terror never saw combat in World War II. It was used extensively post-war by U.S. Marines in the Pacific Theater and was also used in Korea. They were withdrawn from service in 1954. Only 364 were built.



**Grumman F8F Bearcat**

Designed as a smaller fighter, the F8F Bearcat was easier to fly off smaller (Jeep) carriers. The Bearcat just missed wartime service in World War II, but was given to the French who were fighting in Indo China. It went on to earn a reputation as one of the finest piston-engined fighters ever built in the postwar years.



**Grumman G-21 Goose**

Designed late in 1936, the G-21 was a 6 or 7 seater for airline or executive use. It was the first twin-engine Amphibian Flying Boat used by both military and commercial services. This plane weighed 8,000 pounds. The U.S. Army Air Corps and U.S. Navy ordered 21 modified for photography and target towing. The U.S. Coast Guard bought ten for Air Sea Rescue.



**Grumman (General Motors) TBM Avenger**

The Navy's carrier-based torpedo bomber was big and successful. The first one in service saw action at the tide-turning Battle of Midway in June of 1942. Former President George H. W. Bush bailed out successfully in a TBM three years later.





### Lockheed Martin F-16 Fighting Falcon

This multirole jet fighter aircraft was originally developed by General Dynamics for the United States Air Force. Designed as a lightweight fighter, it evolved into a successful multirole aircraft. The Falcon's versatility is a paramount reason it has proven a success on the export market, having been selected to serve in the air forces of 25 nations. The F-16 is the largest Western fighter program with over 4,400 aircraft built since production was approved in 1976.



### Lockheed T-33 Shooting Star

This was the first plane a pilot flew before he/she was qualified to fly any other airplane. It was developed from the Lockheed P-80/F-80 by lengthening the fuselage and adding a second seat, instrumentation and flight controls. The two-place T-33 proved to be a suitable advanced trainer, and it has been used for such tasks as drone director and target towing. Some T-33s retained 2 machine guns for gunnery training. In some countries, the T-33 was even used as a combat aircraft.



### McDonnell Douglas F/A-18 Hornet

This all-weather carrier-capable multirole fighter jet was designed to attack both ground and aerial targets. Built in the 1970s for service with the United States Navy and Marine Corps, the Hornet is also used by the air forces of several other nations. It has been the aerial demonstration aircraft for the U.S. Navy's Blue Angels since 1986. Its primary missions are fighter escort, fleet air defense, suppression of enemy air defenses (SEAD), interdiction, close air support and reconnaissance.



### McDonnell Douglas F-4 Phantom II

The F-4 Phantom II is a two-seat, twin-engine, all-weather, long-range supersonic interceptor fighter bomber originally developed for the U.S. Navy by McDonnell Aircraft. Proving highly adaptable, it became a major part of the air wings of the U.S. Navy, U.S. Marine Corps and U.S. Air Force. It was used extensively by all of these services during the Vietnam War, serving as the principal air superiority fighter, as well as being important in the ground-attack and reconnaissance roles.



