

# Chinese Cultural Museum

Created for the School Library System of the Genesee Valley Educational Partnership  
by Brian Mayer - Gaming and Library Technology Specialist

**Intro:** The Chinese Cultural Museum is looking for volunteers to help around the museum. Your group has responded to the advertisement and arrived to find a series of obstacles that stand between you and the position. Work together to overcome the challenges and earn your spot.

## Equipment:

- 1 large box - <https://woodcrafter.com/large-wood-trunk-box-11-75-x-8-75-x-4-75/>
- 4 small boxes - <https://woodcrafter.com/medium-scallop-top-box-5-25-x-3-125-x-2-875/>
- 4 hasps - <https://www.amazon.com/gp/product/B01BHDXYMO>
- 1 Butterfly lock and hasp - <https://www.amazon.com/gp/product/B075FC4DY4>
- 4 4-number locks - <https://www.amazon.com/gp/product/B0057RF91G>
- 5 Chinese red envelopes - <https://www.amazon.com/gp/product/B004IMHWCK>
- 13 Joss paper bills - <https://www.amazon.com/gp/product/B01AHADSJ2/>
- 24 Lucky coins - <https://www.amazon.com/gp/product/B01JFLKDJC/>
- 1 Blue Silk pouch - <https://www.amazon.com/gp/product/B00RWZ5PDI/>
- 1 Chinese dragon statue - <https://www.amazon.com/gp/product/B07529S76D>
- 1 Terracotta Statue - <https://www.amazon.com/dp/B001NW219W/>
- 1 Chinese Dog statue - <https://www.amazon.com/gp/product/B0016CPXTE>
- 1 Fraction Tiles set - <https://www.amazon.com/gp/product/B001604R1G>
- 1 Yellow, pink, blue and red silk Ribbon.
- 1 Yellow, pink, blue and red craft paint bottle.
- Cardboard
- Glue
- Masking Tape

## Printables:

- Dragon Estimation (1p)
- Job Posting (1p)
- Money (1p)
- Tiling (3p)
- Wall Fractions (3p)
- Name badge (1p)

## Prep work:

- Cut a piece of cardboard 1.5"x 1" and glue it to the bottom of the terracotta warrior as a base for the statue.
- Paint the lids of two small boxes red. Paint the lid of one small box yellow. Paint the lid of one small box pink.
- Paint the lid of the large box blue.
- Place a piece of masking tape on the four 4-digit locks. Color one red, one blue, one pink and one yellow.
- Place hasps on the large blue box, the small yellow and pink boxes and one of the small red boxes.
- Place the butterfly hasp on the other small red box.

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## Setup:

- Place the 13 Joss Paper Money, 24 Luck Coins and Chinese Red Envelopes inside of the blue silk pouch. Place it on the table.
- Roll up the Money sheet like a scroll and tie it with a blue ribbon. Place it on the table with the blue silk pouch and the Want Ad.
  
- Place the following fraction tiles in the yellow box:
  - ten  $\frac{1}{12}$  tiles
  - four  $\frac{1}{8}$  tiles
  - two  $\frac{1}{4}$  tiles
  - two  $\frac{1}{6}$  tiles
  - two  $\frac{1}{10}$  tiles
  - one  $\frac{1}{2}$  tile
  - one  $\frac{1}{5}$  tile
  - one  $\frac{1}{3}$  tile
- Place the yellow lock on the yellow box and set the combination to 2413 and lock it.
- Place the yellow box in the large blue box.
  
- Cut out and place the name badge in the pink box.
- Place the pink lock on the pink box and set the combination to 9054 and lock it.
- Place the pink box in the large blue box.
  
- Place the Chinese Dog Statue in the red box with the butterfly hasp.
- Lock the box with the butterfly lock.
- Place the butterfly locked small red box in the large blue box.
  
- Place the Terracotta Warrior Statue and the key to the butterfly lock in the other red box.
- Place the red lock on the red box and set the combination to 5212 and lock it.
- Place the red box in the large blue box.
  
- Place the Chinese Dragon Statue in the large blue box.
- Roll up the **Wall Fractions** pages into a scroll and tie it with the **red ribbon**, place it in the large blue box.
- Roll up the **Dragon Estimation** page into a scroll and tie it with **yellow ribbon**, place it in the large blue box.
- Roll up the **Tiling** pages into a scroll and tie it with **pink ribbon**, place it in the large blue box.
  
- Place the blue lock on the large blue box and set the combination to 2010 and lock it.

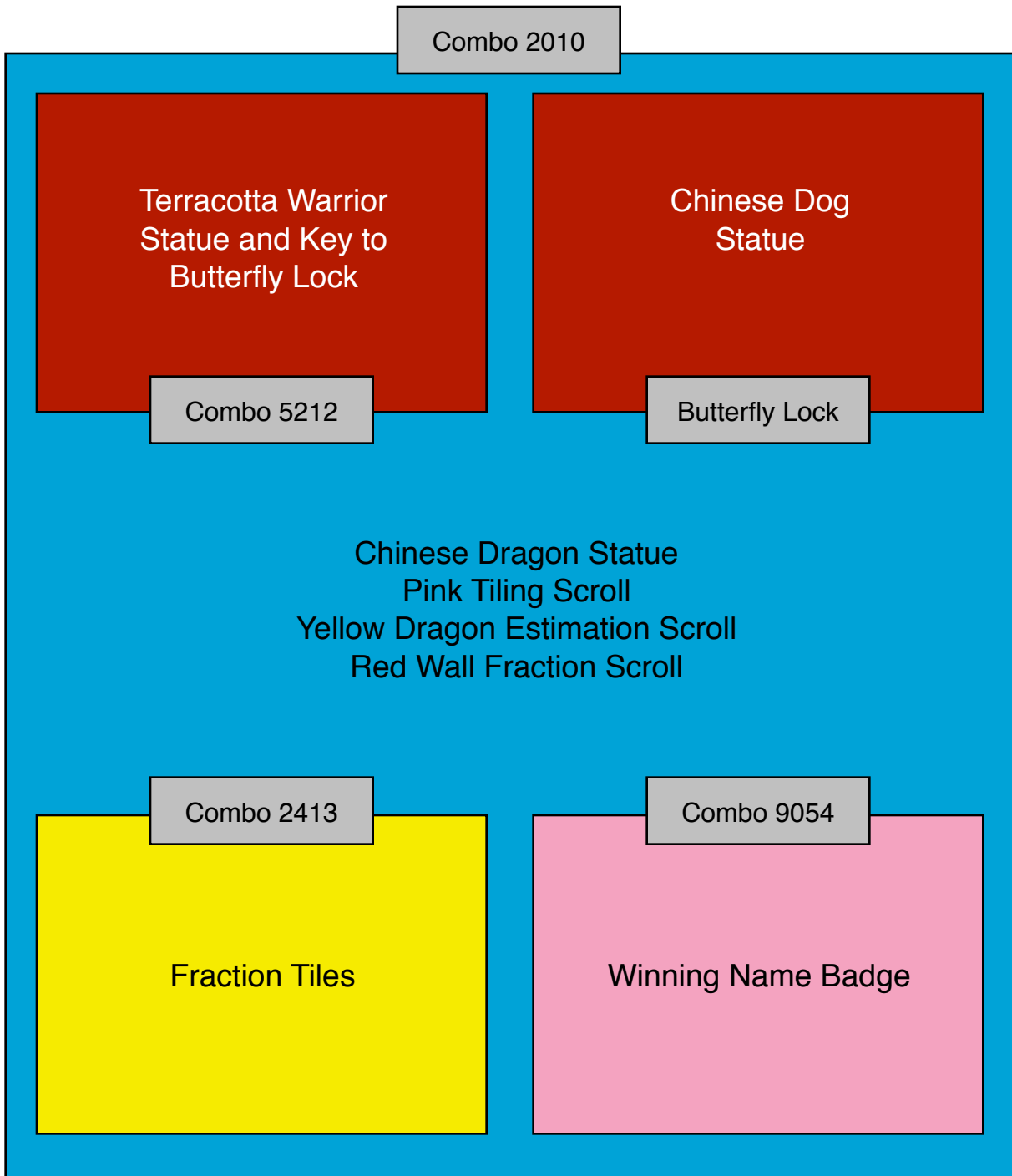
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## Walkthrough:

- Players will first need to get into the large box. To do so, they will need to read the scroll with the blue ribbon and use the Joss Paper, Lucky Coins and Red Envelopes in the blue pouch. The players will need to figure out how much total of the coins and the paper they need to use by dividing it equally amongst the five envelopes. The remainder is not used. So the players will use 20 Luck Coins and 10 Joss paper. The sheet shows a blue lock and asks for the coins and paper numbers. When used they make the combination **2010** which gets the group into the large box.
- The next puzzle the group can do is the paper in the yellow ribbon. The code will open up the yellow box. The players need to use the ruler on the paper to estimate the measurement of the dragon statue included in the large box. The dragon is approximately 5 inches long. Now to get the code to open the yellow box, the players will need to sort the statues from longest to shortest using the data on the chart. The statue numbers are the numbers in the code. So the order goes the 2nd, 4th, 1st and 3rd or **2413**.
- Inside the yellow box are the Fraction Tiles which they can use with the paper in the red ribbon to open the red box. The players need to stack the tiles in the three spots on the building plan following the building rules on the first sheet. The tiles will create equivalent fractions. One section is 2 layers high, one is 3 layers high and one is 4 layers high. The code corresponds to some of the numbers in the equivalent fractions. The 2 layer section is  $\frac{1}{5}$  and  $\frac{2}{10}$ . The 3 layer section is  $\frac{1}{3}$ ,  $\frac{2}{6}$  and  $\frac{4}{12}$ . The 4 layer section is  $\frac{1}{2}$ ,  $\frac{2}{4}$ ,  $\frac{4}{6}$ ,  $\frac{6}{12}$ . The circled numbers below each section (highlighted red in this walkthrough) come together to create the combination to open the red box: **5212**.
- Inside the red box is a terra-cotta warrior statue and a key to open the other red box which contains a guardian lion. The players will use these to determine the area of 2 different plots of land. The areas of the 2 lands will create the code needed to get inside the pink box. The base of the lion represents a measurement of 3 feet by 5 feet. Using that, the players can measure the plot of land on the lions sheet to be 9 by 10 feet, or **90** square feet. The base of the terra-cotta warrior statue measures 2 feet by 3 feet. Using that, the players can measure the plot of land on the warrior's sheet to be 9 feet by 6 feet or **54** square feet. Together they make the code to get into the pink box: **9054**.
- In the pink box, they players find a name badge welcoming them to the museum. They have won!

# Large Box



# On Table

Want Ad  
Blue Scroll  
Silk Bag with 13 Joss Paper Money and 24 Luck Coins  
inside.