## Lesson 1

## Lesson goals:

Excite kids about the fun game of chess
Relate the cool history of chess
Incorporate chess with education: Learning about India and Persia
Incorporate chess with education: Learning about the chess board and its coordinates
Who invented chess and why?
Talk about India / Persia connects to Geography

Tell the s
There can be possible homework relating to India and (si)53S76\&0520055٪e p

## Lesson 3

## Lesson goals:

How to use your Pawns more effectively T
Introduce a special rule
Relate to France / French culture
The importance of passed Pawns and how to create them!

In the position above, White can sacrifice a Pawn to create a passed Pawn and promote it. Solution: 1.c6 and after Black answers w the Pawn promotes on the next move.

In the position below

SPF Chess Training Program for Teachers © Page 5 7/2/2019 XBCDEFGHY 8-+-+-+-+( 7zppzp-+-+-' 6-+-+-+ +\&zPPzP-+-+-\% 4-+-+-+-+\$3+-+-+-+-\# 2-+-+-+ +" 1+-+-+-+-! xabcdefghy Sc

## Lesson 4

Solution: The Rook can capture all the Black Pawns in the following order: a6, d6, d4, f4, f7, h7, h3 and b3.

You can find
See examples, when Rook versus Pawns, both sides are making moves.

Which is the fastest way to capture the Black Pawn? 1.Rb1 then Rxb7
In the next position, White has to play accurately to make sure neither Black Pawn will promote.

Let the students play games from this position:
of the Pawns call it a draw.
R r

## Lesson 5

## Lesson goals:

How a Rook can best help (or fight against) a Pawn
Introduce the Bishop

Introduce the Bishop. Each side has two Bishops. Their starting positions are c1 and f1 for White and c8 and f 8 for Black.

What does the Bishop look like? Show several Bishops from various sets. The slit symbolizes the twopointed hat that Catholic Bishops wear.

Value $=3$ Points or equivalent to 3 Pawns
The Bishop moves only on diagonals consisting of the same color squares as the Bishop is on. It can never move to a different color square than where it starts at the beginning of the game.

Show examples of how to capture 8 Pawns (with no other pieces on the board, only White moves) with the Bishop.
following order: $\mathrm{a} 4, \mathrm{c} 6, \mathrm{f} 3, \mathrm{~h} 5, \mathrm{f} 7, \mathrm{e} 6, \mathrm{c} 4$ and a 2 .

Play a few games 2 Bishops vs. 2 Rooks, each starting in their regular starting positions. If within 15 game. If one side wins a
Bishop but on the next move the other side can capture a Rook, -4(s)]T4 1 277( a )]TJ5800if5e a Rook o2e $356.3 \mathrm{~T}(\mathrm{~m}) 140$

However, attacking the Pawn from d4 would not serve the same purpose: 1.Bd4 f6! 2.Bc5 h5 3.Bf8 h4 4.Bxg7 h3 5.Bxf6 and

Introduce the Queen. Each side has one Queen. Their starting positions are d 1 for White and d 8 for Black.

What does the Queen look like?
Value $=9$ Points or equivalent to 9 Pawns / 2 Bishops and 3 Pawns / 2 Bishops and 1 Knight / 2 Knights and 1 Bishop / 1 Bishop or 1 Knight and 6 Pawns, etc3(c)-3(h)-6(e)11(r)5(s ©k )9(6 Paw)5(nsd6 Tm[2 B4/F2 11.04 Tf1 0

## Lesson 7

## Lesson goals:

How can the Queen can be used effectively against Pawns
The 8 Queens on an empty board
Compare the value of the Queen to other pieces
Introduce the King
How does the King move and capture
Practice more examples of Queen fighting against the Pawns. Play out Queen versus 8 Pawns in their starting position. The easier example would be White to move first. To make it a little more challenging, let Black moves first.

In this position, White should win against the eight Pawns because none of the Black Pawns are advanced.

The more advanced the Pawns are (meaning the closer to the promotion square they are) the more dangerous they are.

In this position, even though the Black Pawns are only one square away from promotion, they can be stopped by 1.Qc5!

In this position, Black has three far advanced Pawns. By giving one up on the King will have at least one of the three Pawns reach the promotion square.

Play Queen versus 2 Bishops game (no other pieces on the board). Black would move first here. Play 15

Try to place 8 Queens on an empty board in a way that none of them can connect to other. In other word, you must place 8 Queens in such a way that none of them is in the path of another - horizontally, vertically, or diagonally.

Here is one of the many solutions: Queens on a8, b2, c4, d1, e7, f5, g3, h6.
Here is a place on the web to exercise it.
http://www.pen.k12.va.us/Div/Winchester/jhhs/math/puzzles/games/queens/queens.html
Last but not least, introduce the King.
It is a slow piece and can only move one square at a time. However, it can move in any direction.
Play games with only the two Kings on the board. Whoever reaches the other end of the board first (1st/8th rank) wins.

## Lesson 8

## Lesson goals:

Introduce the Knight.
How does the Knight move and capture

Explain

Try to jump with the Knight from one square to another covering all 64 squares on the chess board, landing only once on each square. Here is one of the countless starts at square \#1 and ends at \#64. Here is a wonderful link to practice it: http://www.mindmagician.org/tour3.aspx


If you are really interested to learn more about this fascinating subject read this: https://en.wikipedia.org/wiki/Knight\'s_tour

## Lesson 9

## Lesson goals:

Summarize the value of all the pieces
What is one of the goals in chess: Checkmate!
What is the difference between check and checkmate

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Pawn = 1
Knight = 3
Bishop = 3
Rook = 5
Queen = 9
Summarize of the value of all the pieces. Practice capturing. . Capture the more valuable piece.
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Goal of a chess game: Checkmate! Explain the difference between check and checkmate.
Show a sample checkmate with each piece.

In the position above White can checkmate in four different ways. 1.Qb8, 1.Qc8, 1.Qd8 or 1.Qf7. Also point out where White can check: 1.Qd6, 1.Qc5, 1.Qe7 and 1.Qg7.
Explain after each check where would the Black King escape.
e Rook and the Bishop checkmate:

## Lesson 10

## Lesson goals:

How to checkmate in one (m)17(ati BT/F13 11.04 T i)-5(na4 TfC. a2c 1 a2/z2D 3刃6MC /P §DCp11.04 Tfrsp11.

Here are some examples.
stalemate positions.

But the following positions are not stalemate, even though the Black King has no leg(i) $01468.07523 .63 \mathrm{Tm}[+$ )]TJETB1

## Lesson 11

## Lesson goals:

How to checkmate with King and Queen versus a lone King
Do test on differentiating between check, checkmate and stalemate.

## Test for Lesson 11

White to move. Show two ways White can checkmate. Show four ways that give check. Which one of the checks would be a big mistake? Show a move that would end the game in stalemate instantly and therefore should be avoided.

Learn to checkmate with $\mathrm{K}+\mathrm{Q}$ versus K with no other pieces on the board.
There is one very important fact that we need to know about endgames with only $\mathrm{K}+\mathrm{Q}$ versus K on the board: The King can only be checkmated at the edge of the board, namely ether on the a or h file or being on the 1st or 8th rank. Naturally if there is even one single other piece on the board for either side this is not the case.

Here is the game plan:

1) Force the King to the edge of the board
2) Cut it off and

Now let's see it in practice:

The Black King is right in the middle of the board on d 5 . Knowing the above mentioned "fact" we have to put as a priority forcing the Black King to the "wall".
1.Qf6 With this move, White has put the Black King in a "box". Meaning the Black King cannot cross the f file or the 6th rank. Ke4 The Black

## Chess notation

If a Queen moves from d1 to h5, we would write Qd1-h5 or simply Qh5. The symbol for capturing a piece is x . Therefore, if you capture a piece you would write Qxh5. If you give a check you add a after the move.

For a Rook move, you write R; For a Bishop move B; King move K; Knight move N (not to mix it up with a King move). If a Pawn moves you do not need to write P , just the name of the square the Pawn is moving to. Castling has a special notation. Castling to the King (short) side you write $0-0$ and $0-0-0$ for castling to the Queenside.

How to record a chess game and why? Here are two important reasons: To be able to go back and learn from your mistakes or to show off a beautiful combination. Also to be able to prove what the position is on the board in case your opponent tries to cheat.

Show miniature games. One side follows the basic opening principles while the other breaks the rules.
Here is a sample which demonstrates a good start for White and a bad start for Black:

## 1.e4 h5 2.d4 Rh7 3.Nf3 Na6 4.Nc3 Rb8 5.Bc4 Rh8 6.0 0 Nh6 7.Bf4

In this example, White has been nicely following the basic opening principles, while Black has completely neglected them. Let the class play games focusing on following the basic opening principles and on captures.

Order of importance in chess: checkmate, winning pieces, gaining small strategical advantages.


## Lesson 13

## Lesson goals:

How checkmate with two Rooks versus a lone King How checkmate with one Rook versus a sole King

Learn $K+2 R$ versus $K$ checkmate method.

The method we checkmate a sole King with two Rooks is: using one Rook to limit the King s mobility (like in the above example, the Rook on f2, stops the Black King from crossing through the f file) and
ks:
1.Rg1+ Kh4 2.Rh2 checkmate. You do not really need the help of the (White) King to checkmate a sole King with two Rooks.

How to checkmate with a Rook a sole King. Here, we will need the help of our King as one Rook cannot do it on its own.

The first step: Limiting the mobility of the Black King. 1.Ra4 Kd5 Next White brings the King to help. 2.Kd2 Ke5 3.Kd3 Kd5 4.Ra5+ Ke6 5.Kd4 Kf6 Now that the King is close by, ready to help, the White
6.Re5 Kf7 7.Kd5 Kf6 8.Kd6 Kf7 9.Re6

Kg7 10.Ke7 Kg8 11.Rg6+ Kh8 12.Kf7 Kh7 And now an important waiting move 13.Rf6 (Any Rook move towards the Queen side would work, like 13.Ra6, 13.Rb6 and so on with the same purpose) Kh8 14.Rh6 checkmate.

## Lesson 14

## Lesson goals:

Pawn forks

Knight forks

What is a fork? It is a tactical tool to gain material advantage or to checkmate. It is also called double attack. It means you attack two targets at once. Usually we would refer to attacking two of the opponent pieces at the same time. When one of the attacked pieces moves away we capture the other. In some other cases, we threaten with checkmate and attack an enemy piece.

Each piece can fork. Let start with Pawn forks.

In the above diagram position White can fork with
Rook simultaneously. Black will end up losing the Rook. In this case it was important that the d4 square diagram below.

The Knight is the strongest forking piece.

In the first one the solution is $1 . \mathrm{Nc} 4+$ and in the second one, $1 . \mathrm{Nd} 6$ winning material in both cases.

## Lesson 15

## Lesson goals:

Queen Fork<br>Bishop Fork<br>Rook fork<br>King fork<br>Counter fork

Let us learn in this lesson about Queen, Rook and Bishop forks. In concept, they are no different from the Knight and Pawn forks which we have already learned about in lesson 14.

Here are a few examples:

In this position the White Queen can fork with 1.Qd4+.

Even the King can fork, although it is rare.

In the position above, White is in check, yet after moving out of the check with 1.Ke5, the King attacks both Black Rooks resulting a fork and a gain of a Rook.

Not all forks ar

In this position White seemingly can gain material by playing 1.e5, attacking both Black Bishop and Knight. However,

## Lesson 16

## Lesson goals:

Checkmate with two Bishops against a lone King.
The Pin
Absolute Pin
Relative Pin
Making pins

Practice position to play out:
White: Ke8, Be1, Bd1 Black: Ke4 Try to checkmate within 30 moves.
A sole Bishop and King versus a King is a draw. It is impossible to win with no other material on the board. The same goes for a King and Knight versus King only.

A King and two Knights versus King is also a draw unless the lone King is already in the corner and ready to be checkmated.

A pin is a move which forces one of the opponent's pieces to stay still because moving it would expose the King or a more valuable piece behind it. A pin is a very common and powerful tool often resulting in winning material or even in checkmate. A pin can only be created by three pieces: Bishop, Rook or Queen.

There are two types ocaunin
would fall.

## Lesson 17

## Lesson goals:

How to use pins.
Getting out of a Pin
There are cases when creating a pin does not result in immediate material gain. That happens when the pinning piece is of the same or higher value than the pinned piece and the pinned piece is on a protected square.
in a trade and no gain. However, because the Black Bishop is restricted to moving only on the a1-h8 diagonal, White can take advantage of this situation and play 1.Rf8 checkmate!

Here is another example where Black is winning material, thanks to an existing pin.

However, there are pins which look scary but you can get out of!

## Lesson 18

Lesson goals:

## Opposition \#1

Here, the White King is right in front of its own Pawn. The two Kings are opposite each other. Whoever needs to give up this "opposition" is losing the battle. If it is Black's turn White will win the following way: 1...Kd7 2. Kf6 Ke8 3. Ke6 Kd8 4. e5 Ke8 5. Kd6 Kd8 6. e6 Ke8 and 7. e7.

If it is White to move Black is able to draw: 1. Kd5 Kd7 The only right move to maintain the opposition.
2. e5 Ke7 3. e6 and now as we already learned from the previous position 3...Ke8! 4. Kd6 Kd8 5. e7+ Ke8 6. Ke6 Stalemate.

## Opposition \#2

What is the only winning move for White? 1. Kd4! gaining the opposition 1...Kd7 2. Kd5 Ke7 3. Kc6
(Going on the opposite side from Kd8 4. d4 Kc8 5. d5 Kd8 6. Kd6! Ke8 7. Kc7 and the d Pawn marches through.

## Lesson 19

## Lesson goals:

Discovered check
Discovered attack

Let us look at an example of each, starting with the discovered check.

Black King. If the Knight is able to find a square, from where it attacks something (for example, like the Black Queen), that is how White can take advantage of such opportunity. The correct move is 1.Ne7+. After Black moves out of the check, White captures the Queen with 1.Nxg6.

In this position, if the Black King was on g 8 instead of h 8 then Nd5-f6+ would be the answer. But now, there is no discovered check. However, White can gain material by playing 1.Nb4, exposing the Rook on d1 to attack the Black Queen on d7, while the Knight attacks the Black Rook on a2.

As we can see discovery is a special sort of a double attack.

In the next position, we shall see why discovery is so special.

Normally in this position 1.Nd6+ looks bad as it seems that the Pawn on c7 can capture it. However, because of the discovered check ( Black needs to get out of check and lose the Queen.

Sometimes you can even use a discovery to checkmate!

Solution: 1.Bf8 checkmate!

## Lesson 21

## Lesson Goals:

Back rank checkmate
Pattern recognition
The back rank checkmate traps is one of the most frequent that beginner players fall into. Even more experienced chess players sometimes forget about it.
${ }^{\text {th }}$ rank for Black and the
$1^{\text {st }}$ rank for White causes one side to get checkmated.
Here is the most basic illustration of it.

The only two pieces which can give back rank checkmate are the Rook and the Queen.
Pattern recognition is one of the most important aspects of chess. It is estimated that an average chess grandmaster can recognize about 20,000 chess patterns or more.

Now we shall see how to recognize this same pattern (of back rank checkmate) from a distance of 2 or even 3 pair of moves!

Here Black has a Rook protecting the e8 square. Yet, White succeeds after 1.Re8+ Rxe8 2.Rxe8 checkmate.

In the following example, Black guards the e8 with both the Rook and the Knight.
defense of the crucial e8 square.
This is called removing the guard or deflection.


## Lesson 22

## Lesson Goals:

## Skewer

Another important tactical tool is the skewer. Just like in real life as you would make a skewer of meat and vegetables in chess on the same line (which can be on a file, rank or diagonal).

Here, Black suffers because the King and Queen are lined up on the same diagonal. White having a light squared Bishop, can take advantage of this with 1.Bf3+.

In our final example, Black seems to be doing well. The Black Pawn is only one square away from the promotion square (h1). Yet White is in a winning position.
check and s

## Lesson 23

## Lesson Goals:

Opening traps
Normally you can be safe by following the general opening principles; however there are famous opening traps good to know about.

From the starting position: 1.e4 e5 2.Nf3

Now Black is in trouble. If the Knight moves away from e4, for example 5.Ne6+.
, then White has a
agram).

White attacks the Knight again, (with the Pawn, this time) with 5.d3.
Here the same idea is renewed: if the Black Knight leaves the e4 square then 6.Nc6+ wins the Black Queen. The best Black can do is play 5...Qe7 and lose only a Pawn after 6.dxe4 Qxe5 7.exd5. Here Black cannot capture the d5 Pawn because the Black Queen is pinned on the efile.

White is also ends up a Pawn ahead if in the above diagram position, Black tries to counter attack with 4...Qe7. Then, White captures the Black Knight with 5.Qxe4 and after 5...d6 plays $6 . \mathrm{d} 4$ dxe5 7.dxe5.

## Lesson 24

## Lesson goals:

Opening trap fork
Smothered mate
Here is another opening trap you should avoid as White:

## 1.d4 Nf6 2.Nf3 c5

In this position, White could capture the Pawn on c5 with
3.Bf4 cxd4 4.Nxd4 This is already a mistake. Recapturing with the Queen (4.Qxd4) was better.

Now, Black has an unexpected combination to win material. First, Black sacrifices a Pawn with 4...e5. This is a fork. If either piece (Bishop or Knight) just moves away, the other would be captured. But, what happens if White just takes the Pawn with 5.Bxe5?

Then comes a second fork:

Now, White is in check and after White blocks the check, Black can capture the Bishop on e5 with

What is smothered mate? It is a special kind of checkmate, where the King has no escape because his own pieces surround him.


Solution: 1.Qg8! sacrificing the Queen, forcing the Black Rook to take the Queen on g8 and then 2.Nf7 checkmate.

Sometimes, we would like to move a piece to a certain square on the board but we cannot because one of

In the position below, White cou

But after the correct 1.Nxf6+ exchanging the Knight first, White removes the guard of the Queen and


## Lesson 26

Lesson goals:

In this endgame, (as we refer to positions which have only very few pieces left on the chessboard) each side has only a King and a Rook. In most cases, that is a draw unless either side makes a big mistake.
tle yet!
Therefore, by castling to the Queenside (0-0-0), White can make a check and attack the Rook at the same time. In other words, this makes a very rare type of fork.

## White has given up a Bishop to

comes with 1.Ng5. Now Black cannot stop the checkmate with 2.Qh7.


## Lesson 28

## Lesson goals:

Intermediate moves
German connection
What are intermediate moves? We also call them in-between moves or by their original German name move, such as for example capturing a Bishop or even a Queen.
not. Black has set up a trap: after 1.Qxc5, Qh1

No, because of the back rank problem (1.Qxd5? Re1 checkmate). However, White can sacrifice the Bishop first by playing 1.Bb8+! ope material gain.

In the above position, White has an extra Rook and three Pawns. Normally this is a winning advantage. s position. White has no choice but to play 2.Kh1, and forth until there will be the same position three times. This is called draw by perpetual check.

