

# MACBETH

## ACT 3

### YEAR 4 PROBLEM SOLVING



## CONTEXT

Macbeth is now King of Scotland. Banquo is starting to feel uneasy and although he accepts an invitation to a banquet that evening he goes for a ride with his son, Fleance. Macbeth's paranoia and angst are growing and he sends off two murderers to kill Banquo and his son. They kill Banquo but Fleance manages to escape.

Just as the banquet is beginning Macbeth learns that Banquo is dead but Fleance has escaped. When he returns to the banqueting table he finds Banquo's ghost sitting in his place. He begins talking to the ghost, much to the horror and surprise of Lady Macbeth and the other guests (who can't see anything). Lady Macbeth sends the other guests away and tries to calm Macbeth down.

Macbeth says he will return to see the witches the next day. Meanwhile the witches are plotting to draw Macbeth further into trouble by making him believe all will be well.

Lennox and another Lord discuss their growing suspicions of Macbeth and hope that Macduff and Malcolm will soon return with help from England to save Scotland from Macbeth.

## MATHS

**L.I. To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why**

The open-ended problem solving investigations below are designed for children to practice using addition and/or subtraction. It will also help them practice their number facts. They need to work methodically. The investigations get harder as more constraints are given (Investigation 1 being the simplest)

## CHALLENGE

Children to investigate how many different combinations of jewels could Lady Macbeth have.  
Further questions:

What is the largest number of any one jewel Lady Macbeth could have?

If Lady Macbeth wanted the same number of Sapphires and Diamonds what is the most she could have of each?

# **ACT 3**

## **PROBLEM SOLVING INVESTIGATION 1**

Lady Macbeth is designing how her new crown will look now she is queen.

**The crown is able to fit a total of 50 jewels.**

The jewels available are

- Sapphires
- Diamonds
- Pearls
- Emeralds
- Rubies

She wants at least 1 of each jewel on her crown. Using your knowledge of number facts and addition, show what combination of jewels Lady Macbeth could have

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>SAPPHIRES</b>	<b>DIAMONDS</b>	<b>PEARLS</b>	<b>EMERALDS</b>	<b>RUBIES</b>

## **WORKING OUTS**

# **ACT 3**

## **PROBLEM SOLVING INVESTIGATION 2**

Lady Macbeth is designing how her new crown will look now she is queen.

**The crown is able to fit a total of 50 jewels.**

The jewels available are

- Sapphires
- Diamonds
- Pearls
- Emeralds
- Rubies

She wants at least 5 of each jewel on her crown. Using your knowledge of number facts and addition, show what combination of jewels Lady Macbeth could have

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>SAPPHIRES</b>	<b>DIAMONDS</b>	<b>PEARLS</b>	<b>EMERALDS</b>	<b>RUBIES</b>

### **WORKING OUTS**

# **ACT 3**

## **PROBLEM SOLVING INVESTIGATION 2**

Lady Macbeth is designing how her new crown will look now she is queen.

**The crown is able to fit a total of 100 jewels.**

The jewels available are

- Sapphires
- Diamonds
- Pearls
- Emeralds
- Rubies

She wants at least 11 of each jewel on her crown but she doesn't want more rubies than emeralds. Using your knowledge of number facts and addition, show what combination of jewels Lady Macbeth could have

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>SAPPHIRES</b>	<b>DIAMONDS</b>	<b>PEARLS</b>	<b>EMERALDS</b>	<b>RUBIES</b>

### **WORKING OUTS**

