

# **Teacher Preparation Lesson Plan**

**Subject Area:** Mathematics and English Literature **Unit Title:** Introduction to Fractions and Decimals

in the Context of Macbeth

**Grade Level**: 9

Lesson Number: 1 of 10

**Duration:** 120 minutes **Date:** 2024-02-20 **Teacher:** Ms. Jane Doe

**Room:** 101

# **Curriculum Standards Alignment**

### **Content Standards:**

- · Convert between fractions and decimals
- Analyze themes of power and corruption in Macbeth

### **Skills Standards:**

- · Critical thinking
- · Problem-solving
- Communication

### **Cross-Curricular Links:**

- Mathematics and English Literature
- · Critical thinking and problem-solving

# **Essential Questions & Big Ideas**

### **Essential Questions:**

- · How do fractions and decimals relate to real-world scenarios?
- What are the themes of power and corruption in Macbeth?

### **Enduring Understandings:**

- · Fractions and decimals are essential mathematical concepts
- Macbeth explores themes of power and corruption

## **Student Context Analysis**

# **Class Profile:**

• Total Students: 25 • ELL Students: 5

• IEP/504 Plans: 3 • Gifted: 2

# **Learning Styles Distribution:**

Visual: 40%Auditory: 30%Kinesthetic: 30%



# **Pre-Lesson Preparation**

### **Room Setup:**

- · Arrange desks in a U-shape
- · Prepare whiteboard and markers

### **Technology Needs:**

- · Computer with internet access
- · Projector and screen

### **Materials Preparation:**

- · Fractions and decimals worksheets
- · Macbeth handouts

### **Safety Considerations:**

· Ensure students are aware of emergency procedures

### **Detailed Lesson Flow**

### Introduction and Icebreaker (10 minutes)

- · Introduce fractions and decimals
- · Discuss Macbeth

### Maths Lesson (30 minutes)

- Deliver maths lesson
- · Differentiate for foundation, core, and extension learners

### **Engagement Strategies:**

- Use visual aids
- Encourage class discussions

### **Literary Analysis (40 minutes)**

- Analyze themes of power and corruption in Macbeth
- Use mathematical concepts as analogies

### **Checking for Understanding:**

- Use graphic organizers
- Encourage written assignments

### **Group Work and Presentations (40 minutes)**

· Have students work in mixed ability groups





## **Differentiation & Support Strategies**

### For Struggling Learners:

- · Use visual aids and simplified examples
- · Provide graphic organizers

### For Advanced Learners:

- Introduce more complex fraction and decimal problems
- Encourage character studies or thematic essays

### **ELL Support Strategies:**

- · Use visual aids and simplified language
- · Provide bilingual resources

### **Social-Emotional Learning Integration:**

- Encourage self-awareness and self-regulation
- · Foster positive relationships

### **Assessment & Feedback Plan**

### **Formative Assessment Strategies:**

- · Ouizzes and class discussions
- · Written assignments and presentations

### **Success Criteria:**

- · Students can convert between fractions and decimals
- Students can analyze themes of power and corruption in Macbeth

#### Feedback Methods:

- Verbal feedback
- · Written feedback

### **Homework & Extension Activities**

### **Homework Assignment:**

Complete fractions and decimals worksheet

### **Extension Activities:**

- · Research and present on a mathematical concept
- Write a creative story incorporating mathematical concepts

### **Parent/Guardian Connection:**

Encourage parents to support students with homework and extension activities

# **Teacher Reflection Space**

## **Pre-Lesson Reflection:**

- What challenges do I anticipate?
- Which students might need extra support?
- What backup plans should I have ready?

## **Post-Lesson Reflection:**

- · What went well?
- What would I change?
- Next steps for instruction?



# **Introduction to Fractions and Decimals**

### **Definition:**

Fractions and decimals are mathematical concepts used to represent parts of a whole.

## **Real-World Applications:**

- · Cooking and measurement
- · Finance and budgeting

# **Macbeth: Themes of Power and Corruption**

# **Plot Summary:**

Macbeth is a play about a Scottish nobleman who rises to power and commits a series of murders.

### Themes:

- Power and corruption
- Ambition and greed



# **Teacher Preparation Lesson Plan**

# **Differentiation Strategies**

### Foundation:

- · Use visual aids and simplified examples
- · Provide graphic organizers

### Core:

- Deliver standard curriculum
- Encourage class discussions and written assignments

### **Extension:**

- Introduce more complex fraction and decimal problems
- Encourage character studies or thematic essays

### **Assessment and Feedback**

#### **Formative Assessment:**

- · Quizzes and class discussions
- Written assignments and presentations

### **Summative Assessment:**

- Final project or presentation
- Written exam



# **Teacher Preparation Lesson Plan**

# **Conclusion**

## **Summary:**

This lesson plan integrates mathematical concepts with literary analysis, promoting critical thinking and problem-solving skills.

### **Future Directions:**

- Continue to develop and refine the lesson plan
- · Assess and evaluate student learning outcomes

## References

### Textbook:

Macbeth by William Shakespeare

### **Online Resources:**

- Khan Academy
- Math Open Reference





# **Appendix**

### **Worksheets and Handouts:**

- · Fractions and decimals worksheet
- Macbeth handout

### **Assessment Rubrics:**

- Quiz rubric
- Written assignment rubric

# **Glossary**

# **Key Terms:**

- Fractions
- Decimals
- Macbeth

### **Definitions:**

- Fractions: a mathematical concept used to represent parts of a whole
- Decimals: a mathematical concept used to represent parts of a whole
- Macbeth: a play by William Shakespeare