Here's what we used...

SCENE A RAMA® Items

- **Basic Diorama Kit**
- **Building & Structure Kit**
- **Ripplin' Water Kit**
- **Small Project Base & Backdrop**

Household Items

- Black Ultra Fine Point Permanent Marker
- Craft Paints and Brushes
- Cutting Surface
- Disposable Cup
- Flat Wood Toothpicks
- Hobby Knife
- Pencil
- Rubber Bands
- Ruler
- Scissors
- White Paper

Did you know?

Medieval castles were built more for protection than comfort. They are among the most secure buildings ever constructed. Building these military defenses eventually grew into a competition between lords to construct the most magnificent structures in the world.

Fun Fact!

It was the job of the knights to defend the castle and protect the lord and lady whom they served.

1

- Cut *ReadyGrass Sheet* in half widthwise.
- Test fit *Project Base* with *Backdrop* in grooves.
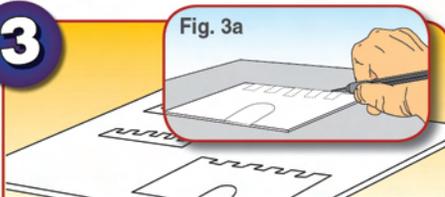- Trim *ReadyGrass*, if necessary.
- Set Backdrop aside.

2

ℹ ReadyGrass Sheets

- Attach *ReadyGrass Sheet* per Basic Use instructions.
- Align *ReadyGrass* on *Project Base* and press to adhere.

3

Fig. 3a

ℹ Medieval Castle Template

- Trace Medieval Castle Front (1x) on *Project Board*.
- Trace Tower (2x), Spire (2x), Parapet (2x) and Disk (2x) on *Construction Board*.
- Using a hobby knife, cut out all castle pieces (except the castle door, windows and crenellation). (Fig. 3a)

4

ℹ Brick Pattern

- Using a black, ultra fine point permanent marker and a ruler, draw brick pattern on castle front wall, towers and parapets.

TIP! Our brickwork pattern was drawn with a height of 1/8".
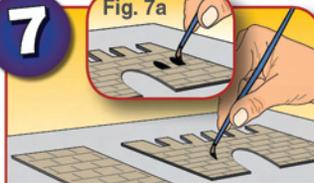
5

- Using a hobby knife, cut out castle door and crenellation.
- Save castle door cutout for Step 15.

6

- Paint backside of front wall and parapet with black craft paint.
- Paint all visible edges with black paint.
- Let dry.

7

Fig. 7a

ℹ Paint

- Paint castle pieces in desired colors.
- Paint windows on front wall and towers with black paint. (Fig. 7a) Let dry.

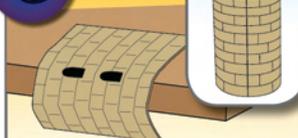**TIP!** Our Medieval Castle was painted with the Stippling paint technique.

8

Fig. 8a

- Form cones into spire shape and tape inside to hold.
- Apply *Project Glue* along outside seams.
- Smooth glue to seal any gaps.
- Glue to disks. (Fig. 8a)

9

Fig. 9a

- Run tower cutouts along a table edge to curve.
- Roll together forming a circle (1 1/4" in diameter). Tape inside to hold.
- Apply *Project Glue* along outside seams. (Fig. 9a)

TIP! Hold with rubber bands while drying.

10

Fig. 10a

- Run parapets along a table edge to curve.
- Form into circles to fit spires and tape to hold (tape inside parapet). (Fig. 10a)
- Apply *Project Glue* along outside seam.
- Let dry.

11

- Using *Construction Board*, cut out two flags.
- Paint desired colors.
- Glue a piece of *Project Wire* to each flag, and glue to spires.

12

- Using *Project Glue*, glue each parapet to a spire.
- Let dry.

TIP! Align seams of parapet and spire.

13

- Align tower and parapet seams.
- Glue parapet assembly to tower.
- Let dry.

14

- Glue towers to front wall.
- Let dry.

15

Fig. 15a

Create Portcullis (Castle Gate)
NOTE: Use castle door cutout as a template.

- Lay five flat toothpicks side-by-side with pointed ends facing same direction.
- Glue four 1 1/2" toothpick pieces across sections. (Fig. 15a)
- Paint desired color.
- Glue portcullis to backside of front wall.

16 — Create Drawbridge
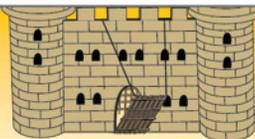
Fig. 16a

Fig. 16b

Fig. 16c

Fig. 16d

- Lay flat toothpicks side-by-side, alternating direction (approx. 22 ea, 1 3/8" in length). (Fig. 16a)
- Glue together and let dry. (Fig. 16b)
- Cut four toothpicks to a length of 1 1/2" for cross-section pieces. (Fig. 16c)
- Glue cross-section pieces in place. Let dry. (Fig. 16d)
- Paint desired color.

17

- Glue base of drawbridge to bottom of castle entrance.
- Cut two pieces of *Project Wire* for drawbridge chain.
- Attach one end of wire to crenellation and opposite end to drawbridge.
- Paint black lines on wire for a chainlike look.

TIP! See our finished diorama for ideas!

18

- Set assembled castle on *Project Base* with label area facing forward.
- Using a pencil, draw castle grounds moat, garden, bailey, well, etc.
- Set assembled castle aside.

19

- To remove *ReadyGrass* (for moat, garden, etc), wet outlined areas with water.
- Scrape off grass carefully.

NOTE: Save loose grass for later use.

20 — Paint

Fig. 20a

- Paint roads, paths, moat and garden area.
- Line outer edges of moat area with a continuous bead of *Project Glue*. (Fig. 20a)
- Let dry for 1 hour.

21

- Glue castle to *ReadyGrass Sheet*.
- Let dry.

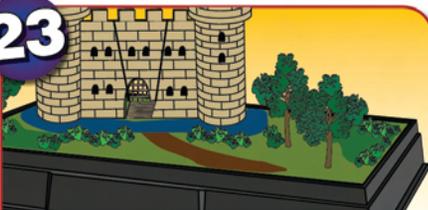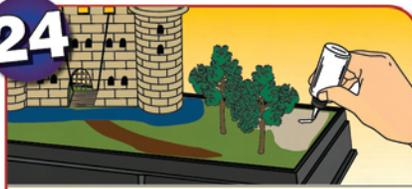## 22 — Project Glue in Spray Bottle and Trees

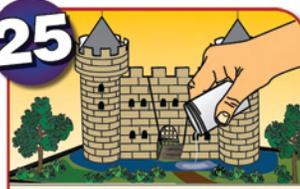**Fig. 22a**

Fig. 22b

Fig. 22c

- Twist *Tree Armatures* into three-dimensional shapes. (Fig. 22a)
- Brush *Sticky Bond* on "leaf" area of branches. Wait until clear and tacky. (Fig. 22b)
- Firmly press *Shrubs/Foliage* onto branches. (Fig. 22c)
- Sprinkle lightly with *Yellow Flowers*.
- Spray tree with diluted *Project Glue* to seal.

23 — Plant Trees

- Using the tip of hobby knife, poke hole through *ReadyGrass Sheet* into *Project Base*.
- Cover hole with a drop of *Project Glue*.
- Place tree in hole.
- Let dry.

24 — Ground Cover

- Apply *Project Glue* where you would like bushes and garden plants.
- Press *Shrubs/Foliage* into glue.
- Highlight with *Yellow Flowers* and/or *Accents*.
- Spray with diluted *Project Glue* to seal.

25 — Realistic Water

- Slowly pour *Realistic Water* on moat area.
- Pull out to edges with *Stir Stick*.
- Let dry until clear (approx. 24 hours).

26 — Buildings & Structures

Fig. 26a

Fig. 26b

Fig. 26c

Fig. 26d

Fig. 26e

- Use flat toothpicks, *Project Board, Project Sticks, Construction Board* and other household items to add details.
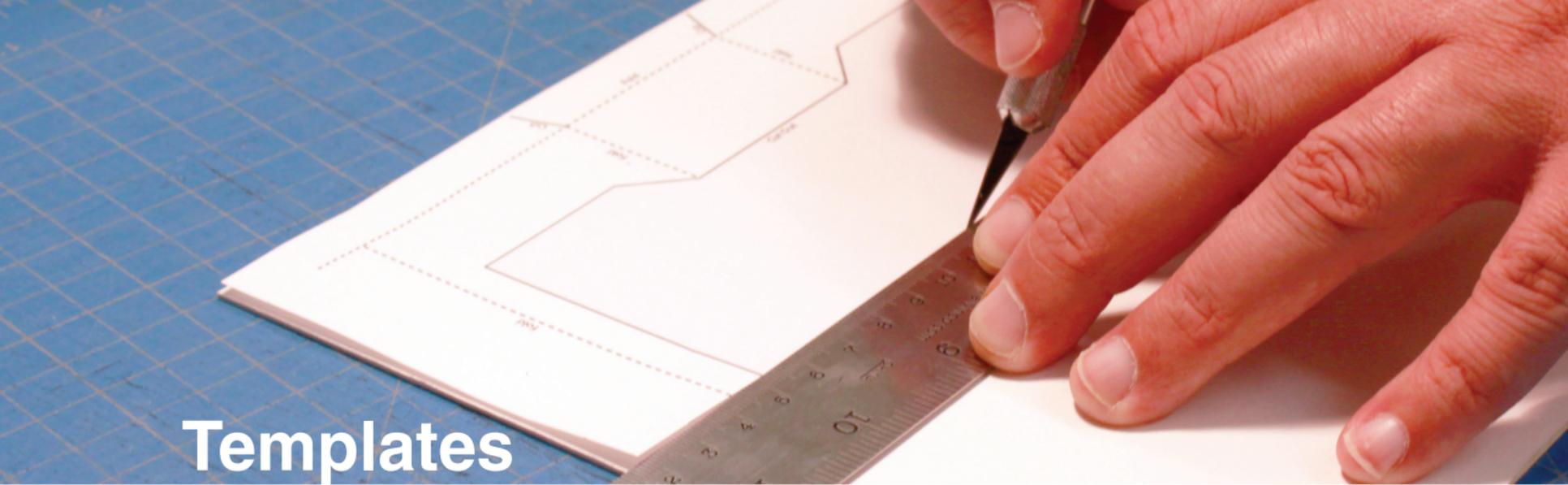
Examples: Wooden Cart (Fig. 26a), Wooden Shutters (Fig. 26b), Wood Pile (Fig. 26c), Crest Markers (Fig. 26d), Farmhouse with *Wild Grass* roof (Fig. 26e).

27 — Project Base & Backdrop

- Design a *Backdrop* that best fits your diorama.
- Cut out using a hobby knife.
- Use craft paints to paint your *Backdrop*.

28 — Labels

- Attach *Backdrop* to *Project Base* using *Project Glue*.
- Label and add signage to your project.

See the **A+ PROJECTS & DIORAMAS: The Student's Handbook (SP4171)** for more information.

Templates

- Photocopy, trace or scan template onto white paper. Cut out, then trace onto specified material.
- If needed, reduce or enlarge templates to fit your diorama.
- Each template includes basic assembly instructions and needed materials.
- Read through the corresponding project instructions for clarification on using template.
- Short dotted lines -------------- indicate fold lines
- Long dotted lines — — — indicate score lines
- Bold, solid lines ———— indicate cut lines

Medieval Castle

Medieval Castle

- Copy template on white paper, then cut out.

- Trace cutout on designated material: Project Board or Construction Board.

- Add Brick Pattern (See Brick Pattern and Brick on a Round Structure)

- Cut out with a hobby knife. Assemble as instructed.

Basic Assembly

Disk (C)
Project Board (2)

Glue to underside of (B)

Spire (E)
Construction Board (2)

(B)

Front (A)
Project Board

(Save piece to use
as drawbridge pattern)

Glue (D)

Parapet (D)
Construction Board (easy) or Project Board (advanced) - (2)

Notch under-
side if using
Project Board

(D)

Glue A

Tower (B)
Construction Board (2)

(A)