

Buildings Travel Far

Trace design ideas from earlier buildings to places used today.

3.7.e “identifying and explaining the architecture and its influence in the world today.”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each building feature or design idea. Circle the words that explain how that idea influences buildings people use today.

Old Ideas, New Buildings

- ① Architecture is the art and planning of buildings. Long ago, Roman builders used rounded arches to carry heavy stone over openings. Rows of arches helped support aqueducts, which carried water to cities. Today, architects still use arches in bridges, train stations, and doorways. The arch shape spreads weight outward, so it can make a strong opening without a solid wall.
- ② In many Middle Eastern cities, traditional homes have an inner courtyard. The courtyard gives families a private outdoor space. Its walls create shade, and a pool or plants can help the air feel cooler. Some new homes, schools, and offices use courtyards too. Architects use this older idea to add daylight, fresh air, and cooler spaces while using less energy for air conditioning.
- ③ In Japan, traditional buildings often have wide, overhanging roofs. The roofs help keep rain off walls and shade rooms during sunny weather. Their simple lines and careful use of wood have influenced some modern homes around the world. When architects borrow an idea, they may change the materials or size. The building can meet new needs while showing where its design idea began.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 Which Roman building feature supports openings? How does its shape make it strong?

2 Name two ways a courtyard can help a modern building.

3 What Japanese roof feature has influenced some modern homes? What was its original purpose?

4 How can an architect use an old design idea while meeting a new need? Use one example from the passage.

3 YOUR TURN _____ Your own words

Write exactly 3 sentences about a building for your town. Use one design idea from the passage, name where the idea comes from, and explain how it would help people today.

PART 1 • READ AND MARK

Underline each building feature or design idea. Circle the words that explain how that idea influences buildings people use today. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	Which Roman building feature supports openings? How does its shape make it strong?	A rounded arch supports openings. Its shape spreads weight outward.
2	Name two ways a courtyard can help a modern building.	Answers may include that it adds shade, daylight, fresh air, cooler spaces, or can reduce energy used for air conditioning.
3	What Japanese roof feature has influenced some modern homes? What was its original purpose?	Wide, overhanging roofs. They helped keep rain off walls and shaded rooms in sunny weather.
4	How can an architect use an old design idea while meeting a new need? Use one example from the passage.	Answers should explain that an architect can change the materials or size while using an older idea, such as using a courtyard to bring daylight and fresh air to a new school or office.

PART 3 • YOUR TURN (SAMPLE ANSWER)

My town library will have an inner courtyard with trees and a small pool. This idea comes from traditional Middle Eastern homes, where courtyard walls give shade and the space can feel cooler. The courtyard will bring daylight and fresh air to readers, so the library may use less air conditioning.

Accept answers that correctly connect an architectural feature to its source and a present-day use or benefit. For the open response, accept other sensible building ideas if all three required parts are included in exactly three sentences.