

# GEODESIC DOME REFLECTION

## UNIT: MANUFACTURING\_LEVEL 2

### CASE STUDY:

Whether societies dwell in cold or hot climates, shelter from the elements is important for survival. Often the quest for a sheltering structure may not be a need, but a want, desire, or a means to achieve some other result. Whatever the reason, a building is normally designed to shelter people and their property.

Ancient civilizations built both small and massive structures to serve a variety of purposes. Some people-built temples or burial sites. Most all had the need for housing. Structures for entertainment or for the pursuit of knowledge were soon added to the list, and offered a unique twist to the typical structure. Materials used in the construction of these temples, palaces, homes, and businesses have ranged from coarse stone to marble, and from ice to sticks. Industrialization introduced metal and steel beams, and the use of glass and concrete eventually became popular.

How many different or unique structures can you think of? List them here:

Consider ancient civilizations and contemplate how their structures compared to those today. Examine the dwellings of other living organisms and creatures. What do their homes look like and what factors influenced their choice of building materials? Sketch what they look like here:

## STUDENT REFLECTION SHEET

We all have different and unique ways to communicate ideas, concepts and memories. When we record them in a logical manner using words, sentences and pictures, we reflect upon our accomplishments as well as our failures. Quite often, we may rely upon these reflections to improve or change the way we will do something in the future. Complete the following questions using words, sentences, pictures and stories. Be honest and record important and meaningful ideas to you.

QUESTIONS	YOUR REFLECTIONS
What was your task, the ultimate goal or outcome for this activity? (This relates to the challenge that you were given.)	
What are some important concepts, factors and ideas that you discovered/learned? (Remember - you may have heard or known about the concept before your challenge; try to jot down something new about it.)	
How did you solve the problem or task? Did you reach your goal? Explain.	
Were your ideas good or bad? Would you make revisions to changes if you had to do it again? Explain.	
How could your activity and the manner by which you approached or solved it be important to a real-life situation? (Think about your home life, school experiences, sporting events or places of employment for others.)	