

# L'APPRENDIMENTO DELLA GEOMETRIA TRA SPAZIO GEOMETRICO E SPAZIO RAPPRESENTATIVO

*Un percorso didattico attraverso  
il territorio e l'architettura della città di Latina*

*Daniela Scali*



*Minicorso "Insegnare la matematica ai bambini a partire dall'esperienza"  
Roma, 23 maggio 2013*

# L'APPRENDIMENTO DELLA GEOMETRIA TRA SPAZIO GEOMETRICO E SPAZIO RAPPRESENTATIVO

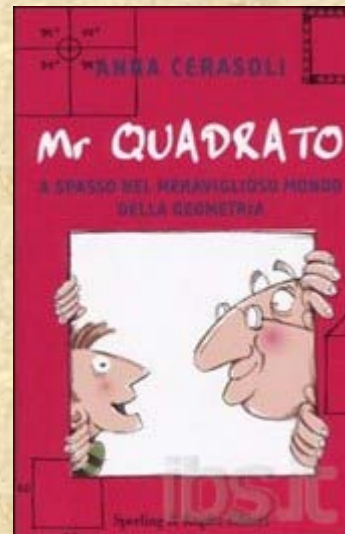
*Un percorso didattico attraverso  
il territorio e l'architettura della città di Latina*

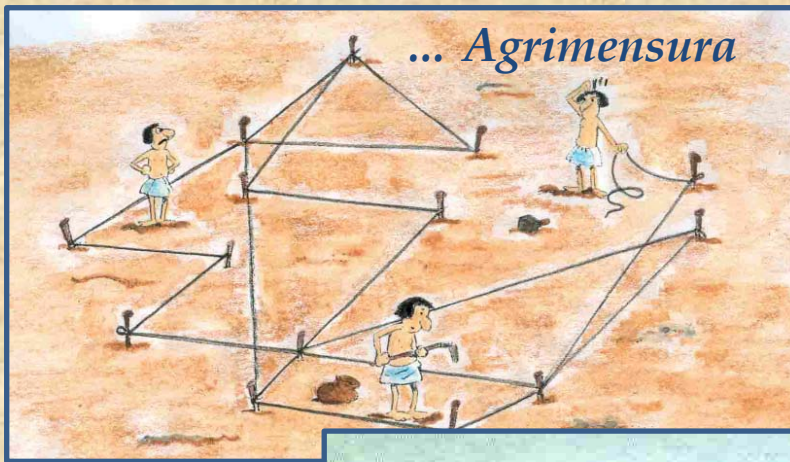


*Progetto realizzato da Daniela Scali  
Relatore: Prof.ssa Ana Millán Gasca  
Correlatore: D.ssa Viviana Rossanese*

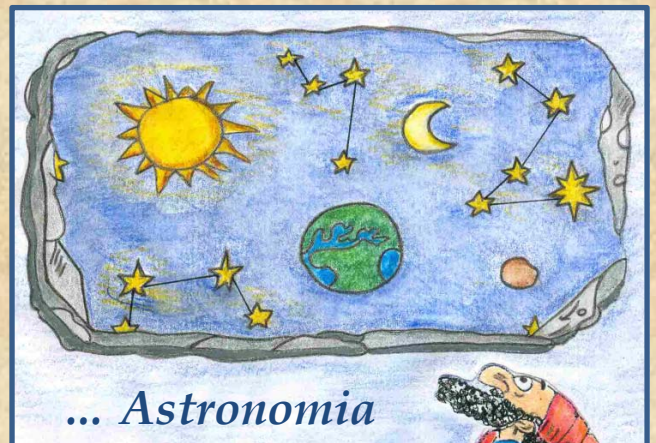
*Scuola primaria: Oddino Montiani  
di Latina (presso I.C. Giovanni Cena)  
Classe: IV A*

# QUADRO TEORICO





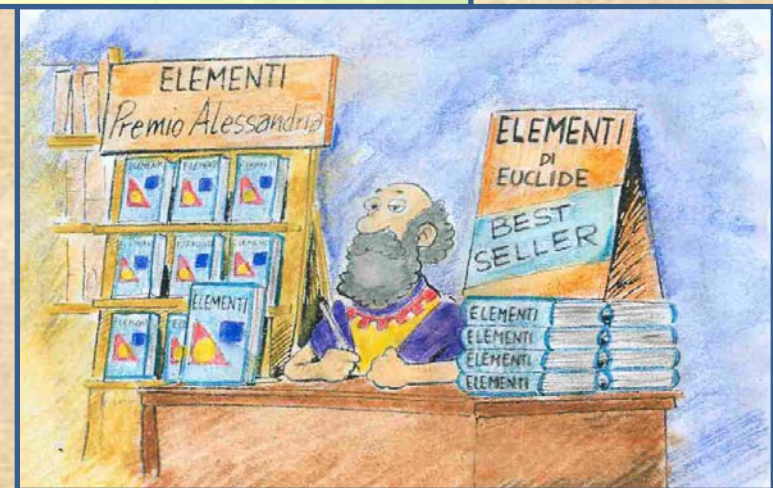
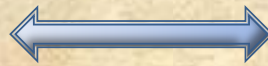
I U.D.  
Come è nata  
la geometria?

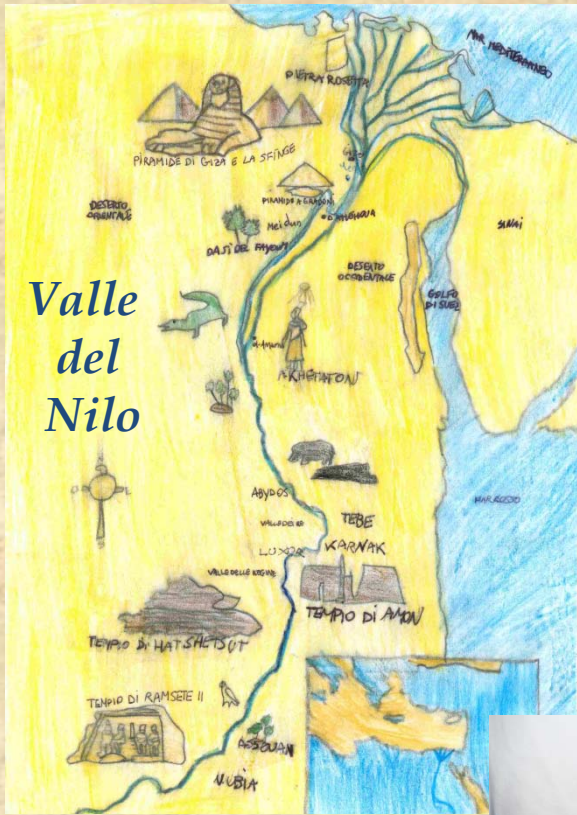


A come ...



*... Astrazione*





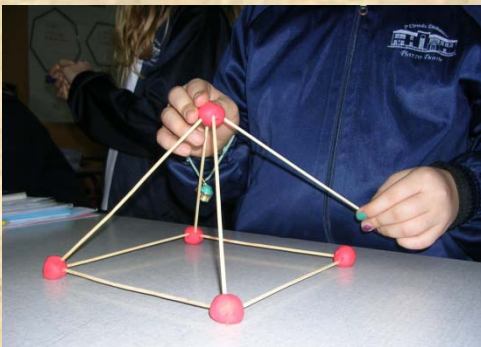
*Valle del Nilo*

**I U.D.**

*Gli alunni all'opera ...*



*I Babilonesi e il tempo ciclico*



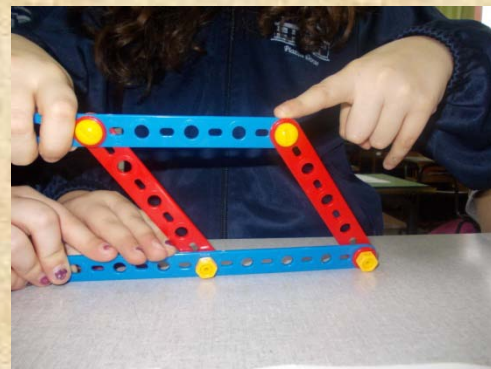
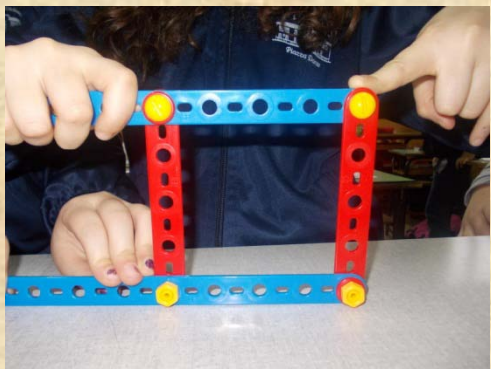
*Costruisco una piramide*

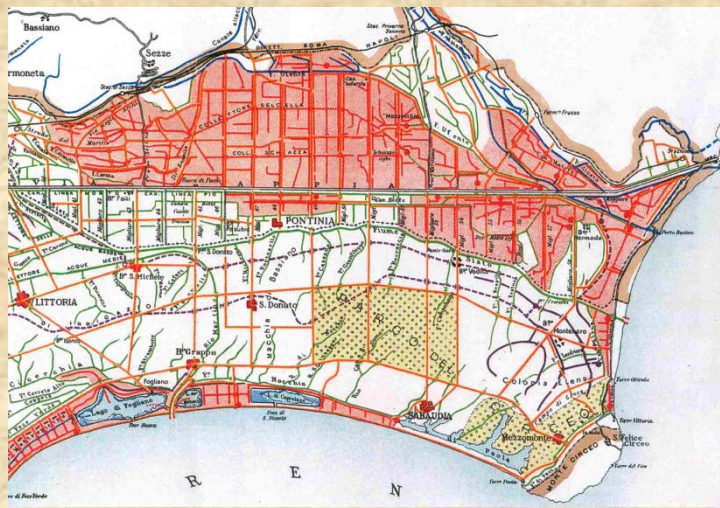


*Il triangolo è indeformabile!*



*Numeri figurati*

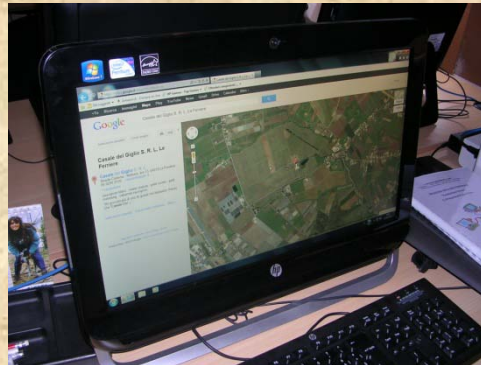




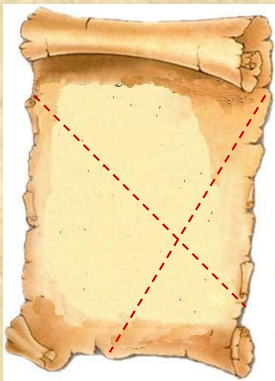
I U.D.  
Gli alunni  
all'opera ...



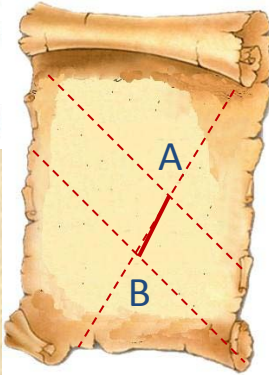
*Nella Pianura Pontina come nell'Antico Egitto*



## II UD



*Pieghiamo  
la carta*

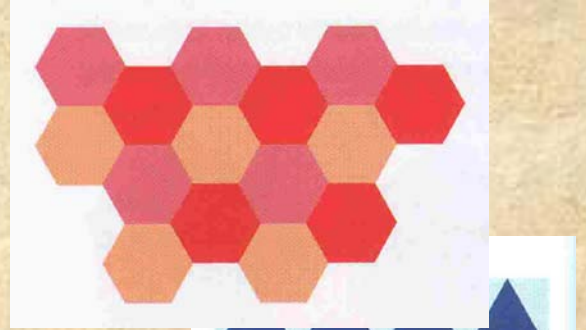


*Teorema di Pitagora*

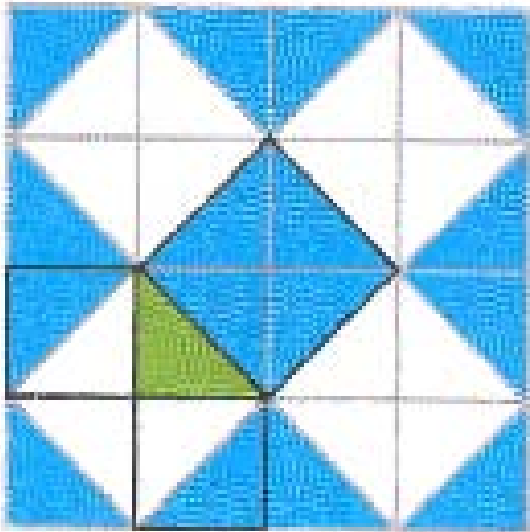
*Geometria, disegno e arte:  
oltre la misura*



*Rosoni*

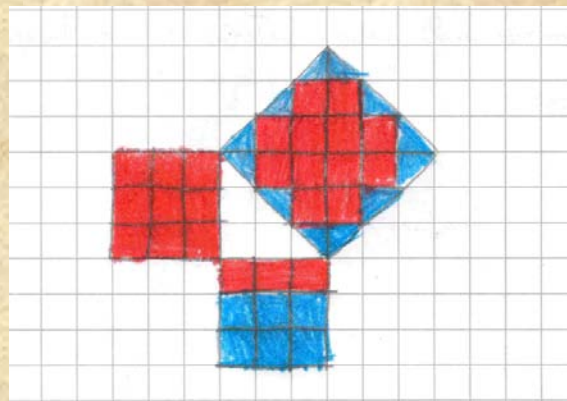
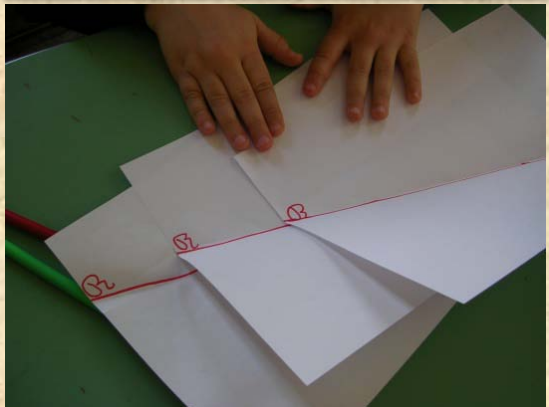
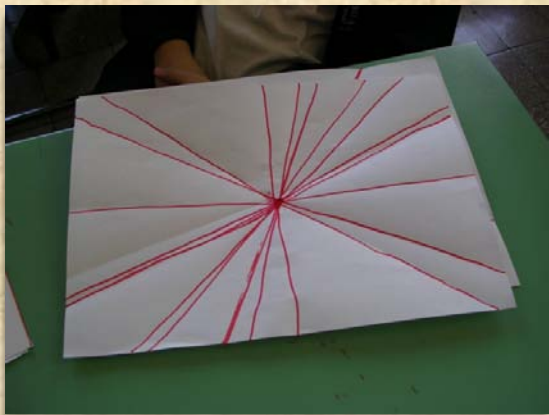


*Tassellature*



*Simmetria*

## II U.D. Gli alunni all'opera ...



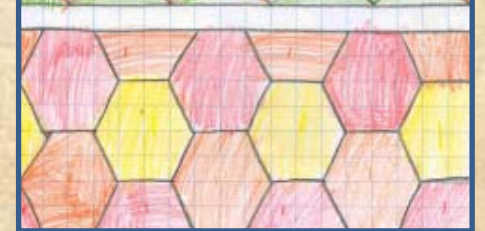
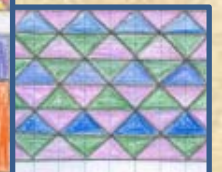
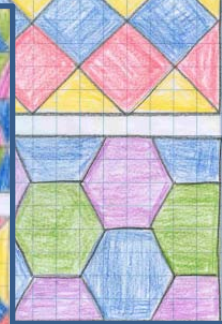
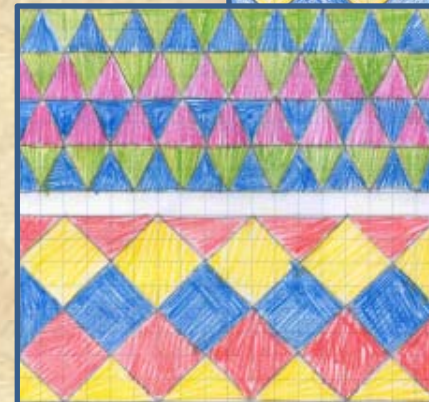
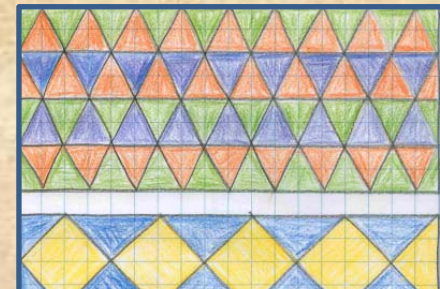
Dato un pentagono regolare, misurare gli angoli senza usare il goniometro.



$540^\circ : 5 = 108^\circ$



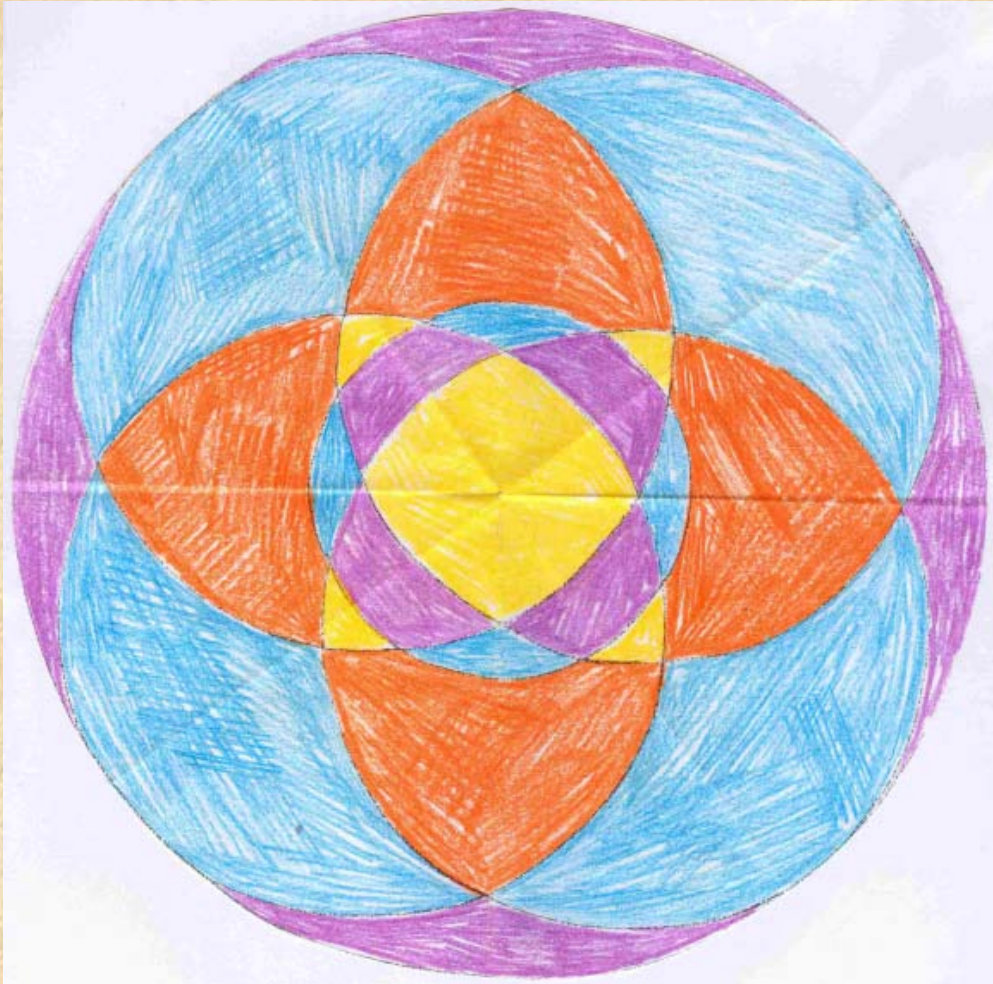
la somma degli angoli interni di un triangolo è  $180^\circ$



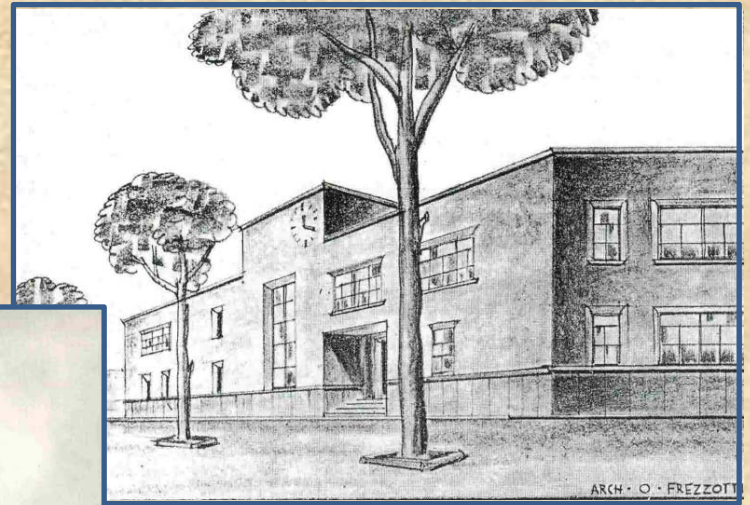
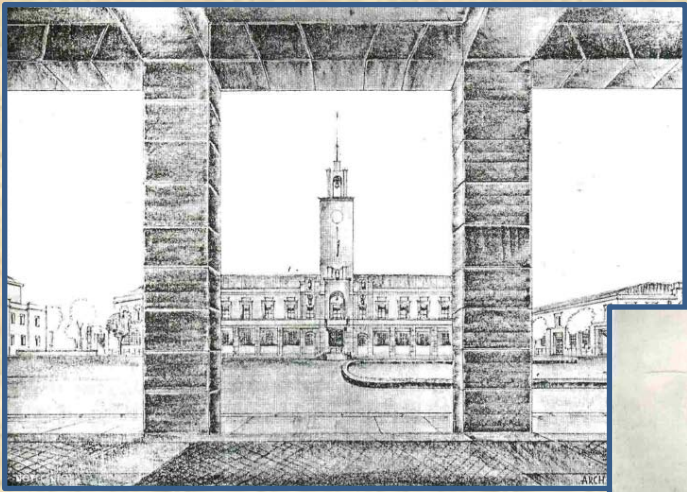


## II UD

### *Gli alunni all'opera*



### III U.D.



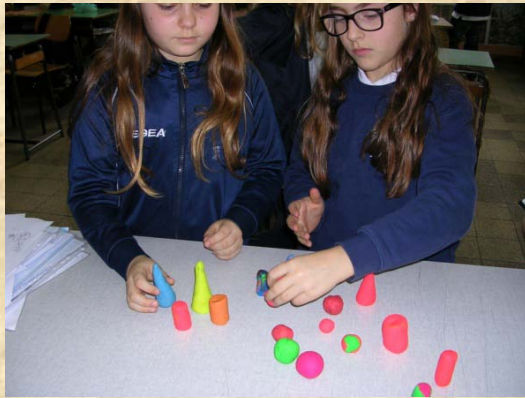
*Alla scoperta  
della geometria...*



*... nella mia città,  
Latina!*



*Solidi che non rotolano*

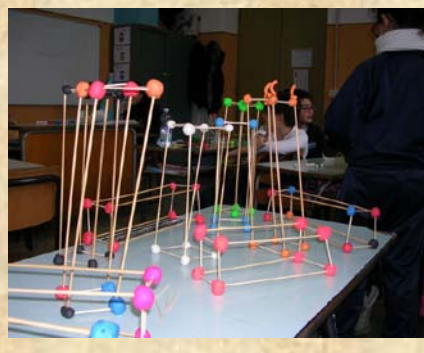
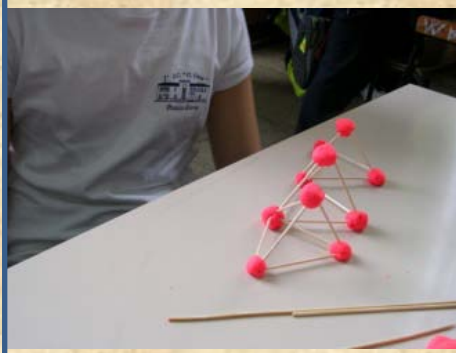
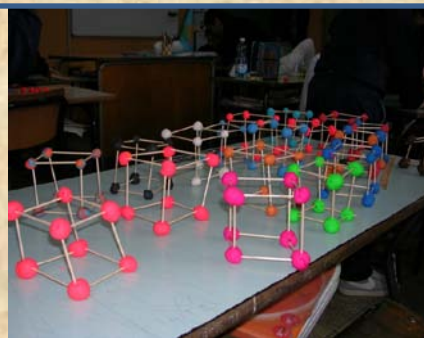
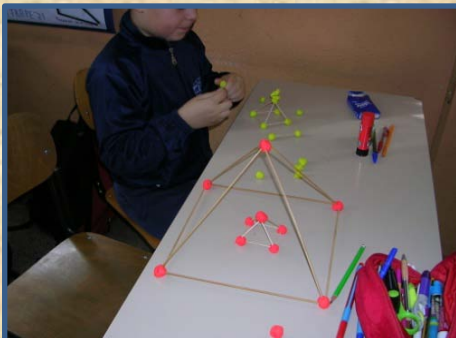


III U.D. *Dalle mappe...*

*Gli alunni all'opera ...*



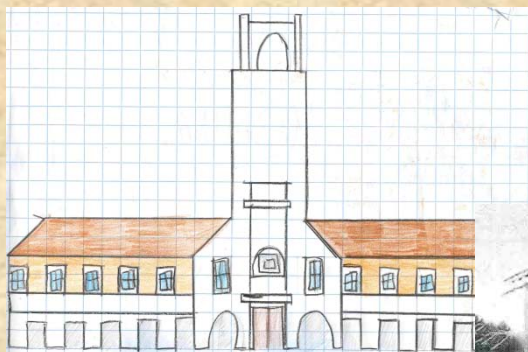
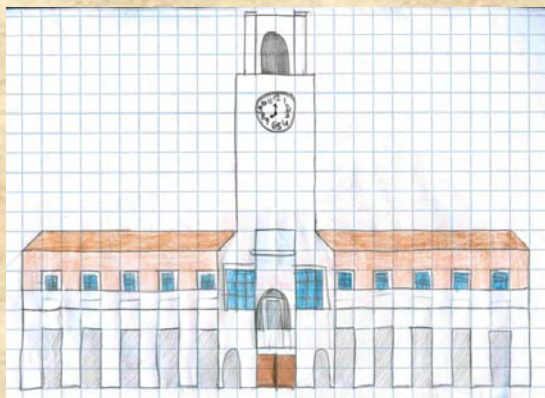
*Strutture di solidi*



*... al piano cartesiano*

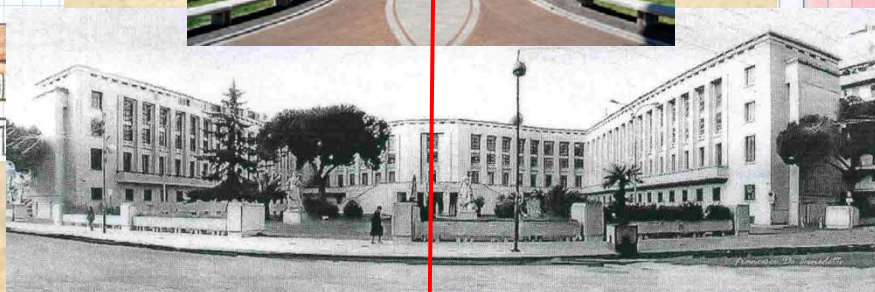
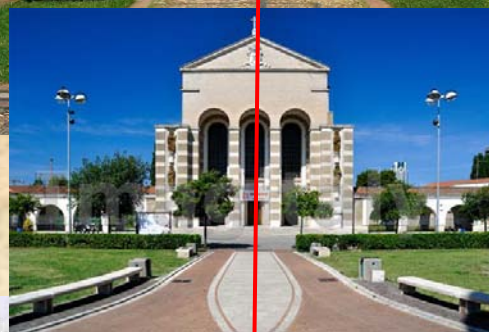
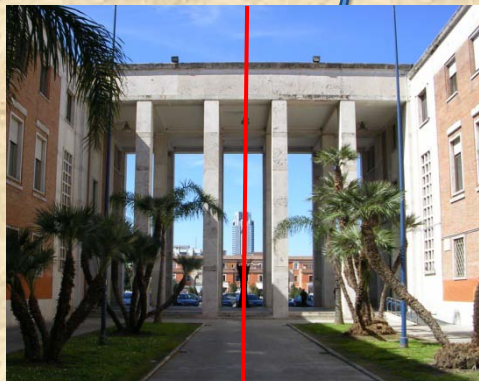


*E' simmetrico*



III U.D.

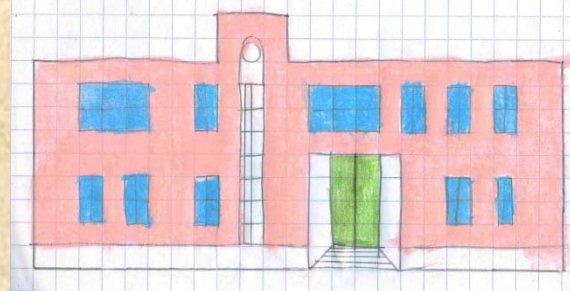
*Gli alunni all'opera ...*



*Non è simmetrico*

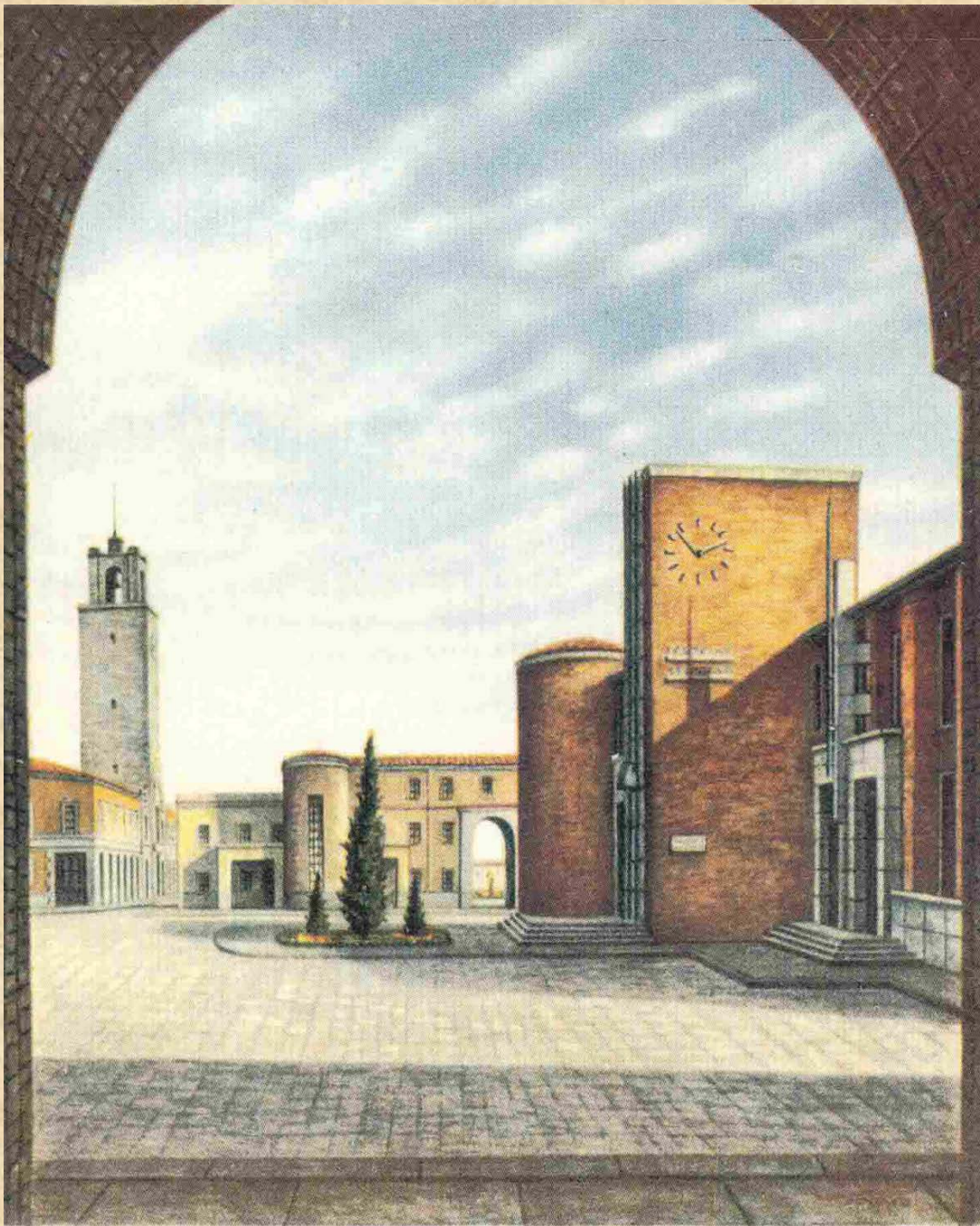


*La mia scuola di Piazza Dante*



**LA MIA SCUOLA DI PIAZZA DANTE**





*Saluti da Latina,  
città del Novecento.*