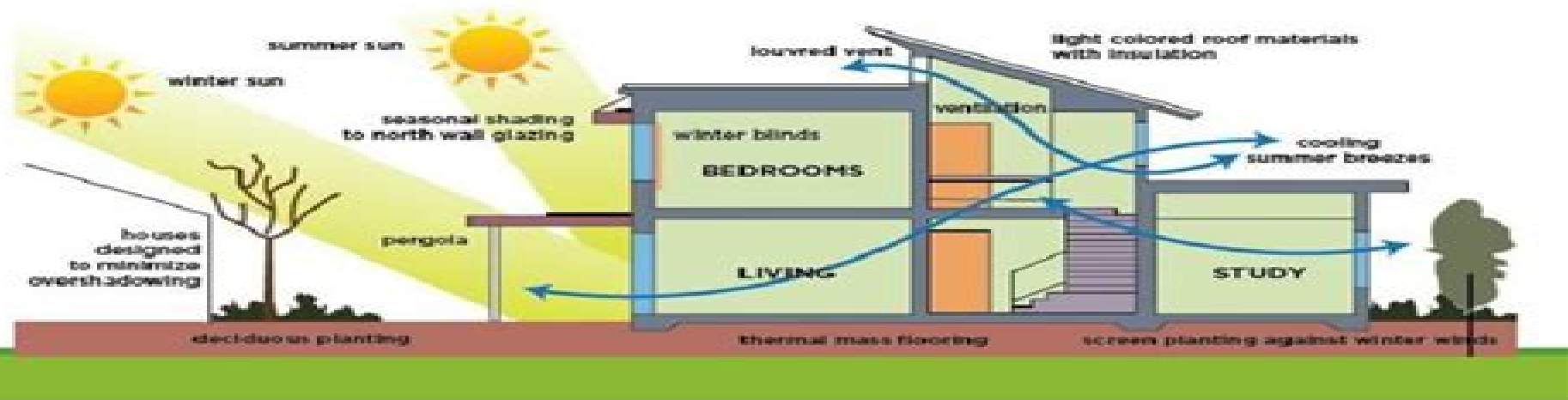


# Passive Heating Techniques



## PASSIVE HEATING

- Passive solar design uses sunshine to heat and light for homes and other buildings without mechanical or electrical devices.
- Heating the building through the use of solar energy involves the absorption and storage of incoming solar radiation, which is then used to meet the heating requirements of the space.
- There are three approaches to passive systems:
  - Direct Gain
  - Indirect Gain
  - Isolated gain
- The goal of all passive solar heating systems is to capture the sun's heat

# Solar Heating Proof Of Concept Experimen

**Oak Ridge National Laboratory**



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*Inventory of Energy Research and Development, 1973-1975: Indexes and appendices* Oak Ridge National Laboratory,1976      *Solar Heating, proof-of-concept-experiment for a public school building* AAI Corporation,1974 On January 14 1974 AAI Corporation received Contract Number NSF 871 from the National Science Foundation to conduct a Solar Heating Proof of Concept Experiment POCE for a public school building On March 1 1974 one and a half months later the experiment began as Timonium Elementary School became the first school in the United States heated by solar energy From March 1 to May 15 the selected wing of the school received 90% of its heat from the solar heating system During this period experimental data was collected and is presented in this report This report describes the system in detail presents the analysis of operation and discusses recommendations and conclusions based upon the results of the experiment so far Page 1

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