***Storyline: We're building our own house***

The setting:

In our area there are a lot of new houses being built at the time. We want to develop our own part of the area, our own little village.   
The students work together 2 and 2. They are all responsible for their own house and the people living there.

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| **Storyline** | **Key Questions** | **Pupils Work /activities** | **Class Organization** | **Resource** | **Outcome** |
| **1. The inhabitants**  Who shall live in our little village?  The students should create two persons (one each) living in their house. | Whats does your character look like?  What is  - the name of your character?  - the address?  - the telephone number  - the ID-number  - Age  - Male/female  - Occupation  - Civil status | The students make just the head of their character.  They are only using coloured paper, no drawings.  The head should be ca. 20 cm in diameter  Information about each person is written in a form on paper.  The ID-number shows the age and if it is a male/female.  The students have to learn how the ID-numbers in Norway are put together and what the differenr figures tell us. | The students work together in pairs which has been organized by the teacher. | .  Introduction to the whole project on the Smartboard  A folder for each team to assemble what they are making  A lot of paper in different colours – suitable for making a face.  Scissors  Gluesticks | A paper-face for each character  All information about the person written in a form on paper.  The characters are put in the team folder. |

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| **2. Designing the houses**  The size of the house is 100 m²  The students design their houses in the scale 1:50 on squared paper. Each square is 1m².  The house should have a living room, kitchen, 2 bedrooms and a bath  Doors and windows are marked on the drawing  Extra:  Design/draw a garage of 35m² | What rooms are important to have in a house?  How big should they be?  Access to the rooms? | Each pair of students starts to design their house. They have to discuss and agree on the design | 2 and 2 students work together | Introduction on the Smartboard. Show house designs and what to think about when planning a new house.  Hand outs to the students with examples of house designs they can use as inspiration.  Squared paper 1:50  Each square is 1m² | A house design showing the rooms in the house, their size and how to access them.  Doors and windows are marked on the drawing.  The design / template is put in the team folder. |

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| **3. Designing the house facads**  Now the students have to look at their house from a different perspective. They have to turn from an overall wiev to a facial wiev.  They have to design each of the walls with doors and windows as seen standing in front of it.  Design each of the walls on squared paper – scale 1:50. | Imagine you are standing in front of your house.  What will the house look like when you see it from this angle?  Look at one and one of the walls. Look at your design. Design the wall as you will see it when standing in front of it. Where are the doors?  Where are the windows? | Each team designs the outer walls of their house.  They place doors and windows where they should be, according to their first design.  Each wall is cut out from the squared paper. | 2 and 2 students work together on their house | Squared paper  Scissors | A collection of paper walls. Each wall matches the original house template.  All the walls are put in the team folder until they shall be used. |

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| **4. Building the house**  All preparations are now made. We are now going to build our houses.  a. Cutting the walls  b. Assembling the house |  | The paper templates of each wall is gently glued on to cardboard. (Not too much glue as it is going to be removed right away....)  Using a sharp knife and a ruler along the side of the paper, the walls are cut out.  The paper is removed from the cardboard as soon as the wall is cut.  The students find out where each of the walls matches the design of the house.  Then they tape the walls together, one after the other. Now the whole house lies folded out. | 2 and 2 students work together on their house.  The students discuss where each of the walls are supposed to be according to their design. | A lot of cardboard (empty boxes)  Sharp knives (break blade knives used for cutting wallpaper)  Gluesticks  Rulers  Adhesive plaster..  Masking tape  "Glue gun" | Ready cut walls of each house  A folded out house |

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| **5. Painting the house**  What does it cost to paint your house? | What colour is the house?  What is the area of the suface of your house? In real?  1l of paint covers 8 m². How much paint do you need?  1l costs 60.- NOK. How much for the whole house? | One side (the outside) of the house is painted.  When it is dry, the other side (the inside) is painted.  If you want a diiferent colour in the various rooms, you have to measure out where each room is....  When the house is painted on both sides, and the paint has dried, the house "stands up" and is taped together in the last corner. The tape is painted.  The students calculate how much it will cost to paint the house – in full scale. | The students help each other painting the house. | Paint in different colours  Small trays for paint  Brushes  Glasses for water  Old newspapers to cover the desks  Pen  Paper  Calculator | Ready painted house – both outside and inside.  A paper shoving the calculation and what is will cost to paint the whole house – in full scale.  The paper is put in the team folder. |

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| **6. The inner walls**  Now, let's go inside our house. What does it look like here?  a. Designing the inner walls  b. Cutting out the inner walls | Imagine you walk into your house.  What will you see?  What will the house look like when you see it from this angle?  Look at one and one of the walls. Look at your design. Design the wall as you will see it when standing in front of it.  Where are the doors? | Each team designs the inner walls of their house.  They place the doors where they should be, according to their first design.  Each wall is cut out from the squared paper.  The paper templates of each wall is gently glued on to cardboard. (Not too much glue as it is going to be removed right away....)  Using a sharp knife and a ruler along the side of the paper, the walls are cut out.  The paper is removed from the cardboard as soon as the wall is cut. | 2 and 2 students work together on their house | Squared paper  Scissors  A lot of cardboard (empty boxes)  Sharp knives (break blade knives used for cutting wallpaper)  Gluesticks  Rulers  Adhesive plaster.. | A collection of paper walls. Each wall matches the original house template.  The paper walls are stored in the team folder until they shall be used.  All the inner walls of the house, cut out in cardboard. |

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| **7. The interior**  a. Painting the inner walls  b. Assembling the inner walls | What colours shal we use in the different rooms? | Painting the walls  The walls are taped together according to the template | 2 and 2 students work together on their house | Paint in different colours  Small trays for paint  Brushes  Glasses for water  Old newspapers to cover the desks  Masking tape  "Glue gun" | The house is now ready |

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| **8. Furnishing the house**  Each team / house gets 100.000.- NOK (10.000€) to buy what they need to furnish the house.  They make a spreadsheet on the computer and make a list for each room. They summarize what they spend for each room and what they spend all together. | What do we need in the living room?  What do we need in the kitchen?  What do we need in the bathroom?  What do we need in the bedrooms? | The students search the net for furniture and other items they need. | 2 and 2 together | Computers for each student / each team | A spreadsheet with all the items they need.  The spreadsheet is formatted so every change they make will adjust the different sums.  When ready, the spreadsheet is printed out and put in the team folder. |

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| **9. The house on the plot**  The students bring their houses to the plot. We have two plots, as the students are divided into two groups.  We place the houses on the plot before we glue them onto the "ground".  Make additional furniture etc for outdoor activities. | How can we place the houses in order to give room for all the houses?  Shall we divide the ground with fences or have a common space for common activities?  What do we need outside to support outdoor living and outdoor activities? | Discussions between the students before they agree upon where to place the houses.  Making chairs, tables and pools for the gardens. | Discussions all together  Working together in teams to make what they need for their own house/garden | Cardboard  Paint in different colours  Small trays for paint  Brushes  Glasses for water  Old newspapers to cover the desks  Masking tape  "Glue gun" | A village with all the houses set in an neighbourhood environment. |