Options for use in the classroom

Competencies that can be gained when building and working with the catapult:

- naming parts of the catapult, using them and improving their function
- creating drawings (as a planning proposal or an illustration)
- investigating the law of the lever and putting it to use
- -enhancing or changing the lever construction
- developing and building machines

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- 2. e the instructions coor imagin on to but the cat. It (depending on example know to be considered as a be done in our pairs or individually).
- 3. Write down the students' experiences, evaluate and test the construction within the group.
- 4. Create more work pieces utilising the laws of levers and simple mechanics (see also OPITEC model 114664 Savonius-wind generator, OPITEC model 103410 wind generator or models from the children's own experiences).
- 5. Finally test the created catapults in different competitions. This could be a "furthest throw" competition or a competition where targets have to be hit (e.g. a ball has to hit a waste paper basket).
- 6. Extension: Write a non-fiction text possible in context of medieval history and find out more about the development of mechanical machines (e.g. Leonardo da Vinci).

