Possibilities for use in competency-based lessons:

Kompetenzen, die beim Bau und der Arbeit mit den Farb-Drehscheiben erworben werden können:

- deliberately choosing materials, describing them, and using them variedly whilst considering technololy and function.
- introducing and developing own design ideas with drawings, especially with view to speed and direction of rotation of the wheels.
- experimenting with the coloured discs (developing their own design elements)
- -changing the design of the mounting device, eg converting the stationary version to a transportable variation.

Suggestions for the use of the ratteria in lessons:

- Using the Ledding project as an example, (see dent concluded in the direction project as an example, (see dent concluded in the direction peed and function of the direction peed and direction of the direction peed and direction of the direction of the direction peed and direction of the directi
- 2 evelop a fucture support and nove the ploured intable by either using pur over design or the given insections (agree a split of work partner of group bject: fitting of the discs).
- 3. Timine, change and compare the bit drive volutions by simply changing the positions of the wheels.
- 4. Examine the optical impact of the disc patterns and add your own designs.
- 5. With different models: compare the self-built constructions at the end of the lesson and explore differences (speed, direction of rotation, appearance of the coloured discs). Arrange an exhibition of the different models

Didactic background: Technical Education

It is important in terms of successful technology education that each time children express the knowledge they already have in assumptions and drawings (direction of rotation, speed). After the experiments these assumptions are compared and evaluated with the observations and results. Self-developed solutions are preferential to given ones. Hence the instructions are only one option to ensure that the construction of the coloured turntables will definitely succeed. Variations are expressly welcomed, the materials included offer a choice of model variations.

