

Wacky Windmills : DT : Year 1/2

| | Learning Objective | Overview | Assessment Questions | Resources |
|-----------------|--|--|---|--|
| Lesson 1 | To explore what windmills are and how they are used. | Children will explore what a windmill is and identify the different parts they have. They will describe the appearance of different windmills and will begin to understand what they do. | <ul style="list-style-type: none"> Can children explain what a windmill is and what they are used for? Can children describe the features of a windmill? Do children know why farmers don't use the traditional windmills as much now? | <ul style="list-style-type: none"> Slides The Brill Windmill Story Book Worksheet 1A/1B/1C Brill Windmill Cards Windmill Song Lyrics (for FSD? activity only) |
| Lesson 2 | To explore ways of making strong bases. | Children will look at windmill bases and what they are made of. They will work with materials to find the best materials to make strong and sturdy windmill bases. | <ul style="list-style-type: none"> Can children use materials to construct a base? Do children understand that some materials are stronger than others? Do children know how to join materials together successfully? | <ul style="list-style-type: none"> Slides Challenge Cards 2A/2B/2C Range of construction materials Structure Challenge (for FSD? activity only) Design Vocabulary (for FSD? activity only) |
| Lesson 3 | To explore how to make sails for windmills. | Children will look at windmill sails and what materials are used to make them. They will use different materials to make different types of windmill sails. | <ul style="list-style-type: none"> Do children understand that some materials are better to catch the wind than others? Can children choose appropriate materials to create a structure? Can children explain how to make a structure spin on an axis? | <ul style="list-style-type: none"> Slides Challenge Cards 3A/3B/3C Range of craft materials Pinwheel Instruction Card (for FSD? activity only) Pinwheel Template (for FSD? activity only) Pipe cleaners, drinking straw and beads (for FSD? activity only) |
| Lesson 4 | To be able to design your own windmill. | Children will look at different windmills around the worlds and discuss their differences. They will use given templates and planing sheets to design their own windmill that they will make in the following lessons. | <ul style="list-style-type: none"> Can children design a windmill that follows a theme? Can children explain what materials to use to construct a windmill? Can children make predictions about the construction process? | <ul style="list-style-type: none"> Slides Worksheet 4A/4B/4C Computers and a printer (for FSD? activity only) Builder's Materials Sheet (for FSD? activity only) |
| Lesson 5 | To be able to follow a plan to make a windmill. | Children will use a range of craft materials to make their windmill from their own plan. They will follow instructions and use images to construct a model windmill. | <ul style="list-style-type: none"> Can children follow a design to create a windmill? Can children choose appropriate materials to make a windmill? Can children construct a windmill that represents a particular theme? | <ul style="list-style-type: none"> Slides Windmill Template Image Cards A range of craft and construction materials Digital Windmill Design print-outs (for FSD? activity only) |
| Lesson 6 | To be able to evaluate your finished windmill. | Children will evaluate the windmill-making process and will share their successes and challenges with others. They will explain how their model could be improved if they were to make it again. | <ul style="list-style-type: none"> Can children describe the design and construction process clearly? Do children understand how to evaluate a process? Can children share their experience with other class members? | <ul style="list-style-type: none"> Slides Worksheet 6A/6B/6C Windmill Picture Cards (for FSD? activity only) Question Cards (for FSD? activity only) |