Lampiran 1

**KISI-KISI INSTRUMEN**

**PENELITIANKEMAMPUAN SAINS ANAK**

|  |  |  |  |
| --- | --- | --- | --- |
| Variabel | Indikator | Deskriptor | No. Item |
| Kemampuan Sains Anak | 1. Memahami masalah | 1. Anak mampu mengidentifikasi ciri-ciri suatu benda | 1 |
| 1. Anak mampu mengedentifikasi persamaan dan perbedaan suatu benda | 2 |
| 1. Merencanakan penyelesaian | 1. Anak mampu menentukan urutan langkah-langkah yang harus ditempuh dalam suatu percobaan | 3 |
| 1. Melaksanakan rencana | 1. Anak mampu menyebutkan cara mengolah bahan yang telah disediakan | 4 |
| 1. Anak mampu mengolah bahan yang telah disediakan dalam pembelajaran sains | 5 |
| 1. Anak mampu mengamati dengan detail proses sains yang sedang berlangsung | 6 |
| 1. Melakukan pengecekan | 1. Anak mampu menceritakan perubahan yang terjadi dalam kegiatan percobaan | 7 |
| 1. Anak mampu mengungkapkan sebab-akibat dari kegiatan sains | 8 |
| 1. Anak mampu menunjukkan hasil kegiatan sains | 9 |

Lampiran 2

**PEDOMAN OBSERVASI PADA ANAK**

Nama :………………………………..

No.induk :………………………………..

Kelompok :………………………………..

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Yang diamati | Ya | Tidak | Keterangan |
| 1. | Anak mampu mengidentifikasi ciri suatu benda |  |  |  |
| 2. | Anak mampu mengedentifikasi persamaan dan perbedaan suatu benda |  |  |  |
| 3. | Anak mampu menentukan urutan langkah-langkah yang harus ditempuh dalam suatu percobaan |  |  |  |
| 4. | Anak mampu menyebutkan cara mengolah bahan yang telah disediakan |  |  |  |
| 5. | Anak mampu mengolah bahan yang telah disediakan dalam pembelajaran sains |  |  |  |
| 6. | Anak mampu mengamati dengan detail proses sains yang sedang berlangsung |  |  |  |
| 7. | Anak mampu menceritakan perubahan yang terjadi dalam kegiatan percobaan |  |  |  |
| 8. | Anak mampu mengungkapkan sebab-akibat dari kegiatan sains |  |  |  |
| 9. | Anak mampu menunjukkan hasil kegiatan sains |  |  |  |

Keterangan:

Ya : Skor 1

Tidak : Skor 0

Bone, Desember 2011

Observer,

(................................)

Lampiran 3.a.

**KemampuanMengenalSainsAnakSebelum**

**DiberikanPerlakuanDenganMenggunakanMetodeEksperimen**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Nama** | **Skor Penilaian** | | | | | | | | | **Jumlah Skor** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
| 1 | A | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| 2 | B | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| 3 | C | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 4 | D | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| 5 | E | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 6 | F | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7 | G | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 8 | H | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | I | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| 10 | J | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 6 |
| 11 | K | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 12 | L | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 13 | M | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 14 | N | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 5 |
| 15 | O | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 16 | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Q | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 4 |
| 18 | R | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | S | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 6 |
| 20 | T | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| JUMLAH | | | | | | | | | | | **47** |

Lampiran 3.b.

**Kemampuan Mengenal Sains Anak Sesudah**

**DiberikanPerlakuanDenganMenggunakanMetodeEksperimen**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Nama** | **Skor Penilaian** | | | | | | | | | **Jumlah Skor** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
| 1 | A | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 7 |
| 2 | B | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 3 | C | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 4 |
| 4 | D | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 8 |
| 5 | E | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 7 |
| 6 | F | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 4 |
| 7 | G | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 7 |
| 8 | H | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 4 |
| 9 | I | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 5 |
| 10 | J | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 8 |
| 11 | K | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 5 |
| 12 | L | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| 13 | M | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 |
| 14 | N | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 8 |
| 15 | O | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 6 |
| 16 | P | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| 17 | Q | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 18 | R | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 4 |
| 19 | S | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 20 | T | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 6 |
| JUMLAH | | | | | | | | | | | 120 |

Lampiran 4

**Kemampuan Mengenal Sains Anak Sebelum dan Sesudah**

**Diberikan Perlakuan Dengan Menggunakan Metode Eksperimen**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | KodeSubjek | KemampuanMengenalSainsAnakSebelumPerlakuan | KemampuanMengenalSainsAnakSesudahPerlakuan |
|
|
| 1 | A | 2 | 7 |
| 2 | B | 3 | 9 |
| 3 | C | 1 | 4 |
| 4 | D | 3 | 8 |
| 5 | E | 2 | 7 |
| 6 | F | 1 | 4 |
| 7 | G | 2 | 7 |
| 8 | H | 0 | 4 |
| 9 | I | 4 | 6 |
| 10 | J | 6 | 8 |
| 11 | K | 1 | 5 |
| 12 | L | 1 | 4 |
| 13 | M | 1 | 3 |
| 14 | N | 5 | 8 |
| 15 | O | 2 | 6 |
| 16 | P | 0 | 3 |
| 17 | Q | 4 | 9 |
| 18 | R | 0 | 4 |
| 19 | S | 6 | 9 |
| 20 | T | 3 | 6 |
| **Jumlah** | | 47 | 121 |

Lampiran 5

**DAFTAR NILAI KRITIS WILCOXON**

**UNTUK UJI JENJANG BERTANDA WILCOXON**

|  |  |  |
| --- | --- | --- |
| **Ukuran sampel** | **Taraf nyata/signifikan** | |
| **0,01** | **0,05** |
| 6 | - | 0 |
| 7 | - | 2 |
| 8 | 0 | 4 |
| 9 | 2 | 6 |
| 10 | 3 | 8 |
| 11 | 5 | 11 |
| 12 | 7 | 14 |
| 13 | 10 | 17 |
| 14 | 13 | 21 |
| 15 | 16 | 25 |
| 16 | 20 | 30 |
| 17 | 23 | 35 |
| 18 | 28 | 40 |
| 19 | 32 | 46 |
| 20 | 38 | 52 |
| 21 | 43 | 59 |
| 22 | 49 | 66 |
| 23 | 55 | 73 |
| 24 | 61 | 81 |
| 25 | 68 | 89 |